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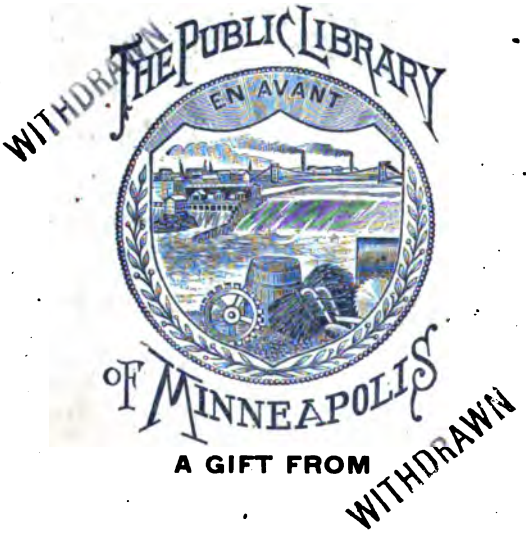

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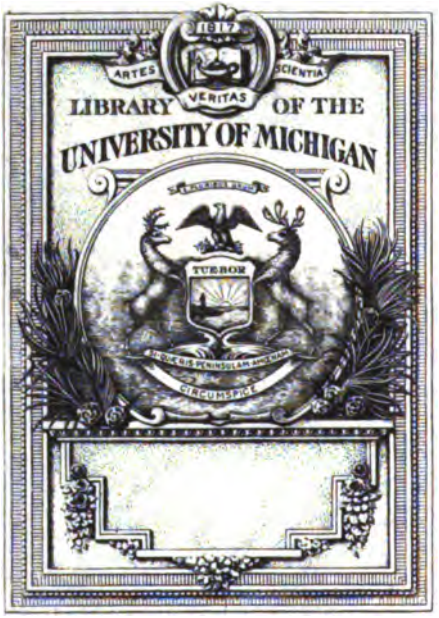

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CITY DOCUMENTS

FOR THE YEAR

1898.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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3. Annual Report of the Superintendent of Public Buildings, for the year ending December 31, 1897.

4. Sixtieth Quarterly Report of the Department of Public Works, for the quarter ending December 31, 1897.

5. Annual Report of the Commissioners of the North Burial Ground, for the year 1897.

6. Annual Report of the Inspector of Buildings, for the year 1897.

7. Report of the Joint Special Committee on Train Sheds.

8. Fifteenth Annual Report of the Superintendent of Health, for the year 1897.

9. Forty-Third Annual Report of the City Registrar upon the Births, Marriages and Deaths, in the City of Providence, for the year 1897.

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No. 10. Annual Report of City Engineer, for the year 1897.

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CITY MANUAL

MUNICIPAL GOVERNMENT

1898.

The Providence Press

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PROVIDENCE

CITY MANUAL:

OR

ORGANIZATION

OF THE

MUNICIPAL GOVERNMENT,

FOR THE YEAR

1898.

PREPARED BY

WILLIAM E. CLARKE,

CITY CLERK.

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CITY OF PROVIDENCE.

RESOLUTIONS OF THE CITY COUNCIL NO 4.

[Approved January 4, 1898.]

RESOLVED, That Messrs. Trask, Angell, Morgan, and Burdick of the Common Council, with Alderman McGann be and they are hereby appointed a committee to wait upon His Honor Mayor Baker, and request him to furnish for publication a copy of the address delivered by him to the City Council, January 3, 1898, and to cause the same to be published in such manner as they shall deem expedient.

RESOLVED, That the above named committee be and they are hereby directed to cause the standing rules of order of the Board of Aldermen and the Common Council, a list of the standing committees of the City Council, a list of the city officers, and such portion of the record of the organization of the city government as they may deem expedient, to be printed for the use of the City Council, under the general title of the "City Manual."

Witness:

Wm C Clarke

City Clerk.

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Inaugural Address

OF

WILLIAM C. BAKER,

MAYOR,

DELIVERED JANUARY 3, 1898.

GENTLEMEN OF THE CITY COUNCIL:

It is in no light mood that I enter to-day, upon the duties of Chief Executive of this important municipality.

Deeply sensible as I am of the honor which the citizens of Providence have conferred upon me, and profoundly grateful to them for the distinction, I am at the same time keenly conscious of the fact that the honor is attended by grave responsibilities, which can be successfully met only by the exercise of the utmost energy and integrity, sound judgment and decision. And responsibilities of this nature necessarily have a sobering influence.

I realize also, that whatever I may be, and whatever I may do, my administration cannot be a successful

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one without cordial coöperation between the two branches of the legislative department and the executive. And, therefore, while I summon to my aid all the resources of which I have command, I must also ask for, and hope to receive from you, in the year to come, that needful coöperation.

I trust that our relations shall always be of the most friendly and confidential nature; that at all times we shall freely consult together for the common good, and that we shall ever welcome any criticism or discussion that may throw light upon what is best for the interests of our City.

I invite your attention now, in accordance with custom, to a report upon some of the important affairs of the different departments, together with such suggestions as I may make thereon.

BOARD OF PUBLIC WORKS — HIGHWAYS.

The appropriation for "building, cleaning, and repairing highways" for the ensuing fiscal year is $200,000. The cost of cleaning and repairing, exclusive of building new highways, for the fiscal year ending September 30, 1897, was $226,450.74. It can readily be seen that all of the appropriation for the present year must be used for cleaning and repairing

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the streets, and that strict economy must be exercised to keep within the appropriation. None of the appropriation can be devoted to new work. In the past few years, the cost of building new streets or repaving old ones, has been from five special loans authorized by the several acts of the General Assembly, commencing in 1887, and aggregating the sum of $2,300,000. This amount has all been expended, except a sum of $53,434.53, which has been appropriated and reserved for completing the building of the streets in the vicinity of the new passenger station.

The money has been expended or appropriated as follows:

Ward No. 1	$182,969 44
Ward No. 2	267,650 88
Ward No. 3	198,119 80
Ward No. 4	538,768 32
Ward No. 5	151,517 56
Ward No. 6	161,414 03
Ward No. 7	249,913 18
Ward No. 8	116,733 32
Ward No. 9	209,934 68
Ward No. 10	222,938 79
Total	$2,300,000 00

There are upwards of ninety streets, aggregating about thirty-two miles, that have been received,

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which are not yet built, and which the city is bound by law to keep in safe condition. In addition there are over fifty streets which the abutting owners have petitioned the City Council to receive and build, upon which no action has been taken. These streets are located in all parts of the city.

You will see, gentlemen, that two questions will confront you in the coming year, in relation to the subject of highways: First, shall the city continue to accept new streets and build them as it has in the past?

Second, if so, how shall it raise the money for that purpose?

In regard to the first question, without any consideration of the means of payment, I believe that the course pursued for several years by our city in building streets has been an extravagant one. This course has resulted in a large number of streets being built, of no use to the city, and only a source of extra expense necessary to keep them in repair. They have been built on demand of the property owners, who in most cases have reaped the benefits thereof, in the shape of enhanced value to their property. It has resulted in a state of log-rolling which, if carried to its logical conclusion, would

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swamp the city financially, The policy of "vote for my street and I will vote for yours," has prevailed too long for the city's good. I would advise that you refuse to accept and build any more streets that are not absolutely essential to the city's needs.

But if, gentlemen, you intend to continue to build streets upon demand, then another serious question will confront you: How shall the city obtain the money to build them? One of three ways must be adopted: First, from the general taxes, as has been the policy for the past few years; Second, from another special loan to be authorized by the General Assembly; Third, from special assessments to be levied upon the abutting estates benefited by the improvement.

The objection offered to the first method is that the finances of the city are in such condition that it cannot be done without raising the tax rate, already very high, and the citizens are in no mood for further demands upon them in that line.

The second method is not only open to the above objection, for interest on the bonds and sinking funds must be provided for, but is also open to the objection that it entails a debt upon those who are to follow us, for improvements that we have enjoyed and worn

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out. There are numerous cases already where streets built under these several loans have been entirely re-built. In one case the street has been built three times, and the final payments for the cost will not be made earlier than 1924.

The objection offered to the third method is that small property holders will have to pay the costs, and, it is claimed, that they cannot afford to do so. While the first part of this statement may, in some instances be true, there are also at the present time many petitions from large real estate holders, who ask the city to build the streets, to enable them to place building lots on the market at enhanced value, and though it might be no more than just to build the streets already received, out of the general taxes, yet there is no better time than the present to change the method, if it is to be changed, and receive no more streets until authority is obtained to assess the cost of building them to the abutting owners. I do not think moreover, that the hardship would be so great as is anticipated. Were we to stop building streets very soon, it might not be fair to compel abutting owners to pay for the few remaining streets which would then be received. But there are probably many more streets ahead of us to be built than are behind us,

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already completed, and one payment made on the cost of a single street would be smaller than the sum total of contributions demanded for successive years toward the cost of the many streets and boulevards which will hereafter be built. The change, too, if made, should be made only upon such terms and conditions as will make the payments so easy that no hardship will be felt. This could be accomplished by giving at first long terms for payments, and in this way, the third method suggested, could be made a boon rather than a burden to the small landholder, relieving him once for all from contributing towards the development of other people's land.

The occupation of portions of the public streets and sidewalks adjoining buildings, especially in the close building district for private use, should be called to your attention. It has become so frequent as to seriously interfere with the use of such streets and sidewalks for public purposes. In return for the conversion of valuable public property to private occupation and use, the city should receive an adequate yearly income, based, I would suggest, upon a fair percentage of the assessed valuation of the property so converted. The right to make such assessment should be obtained from the State Legislature, and

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would tend to restrict somewhat the increasing demand for such private occupation, and return to the public a fair compensation for such use of its property.

The clean condition in which the streets of our city are kept, and the cost of maintaining them in that condition, I am told, will compare favorably with that of any other city in the United States. The results might be more satisfactory if the ordinances regarding the throwing of waste paper into the streets and sweeping rubbish from the stores were more generally enforced. Some well directed efforts on the part of a few public spirited citizens to aid the department in its efforts to keep the streets clear of broken glass and other rubbish has met with such success that it is believed that more thoughtfulness on the part of the citizens themselves in refraining from throwing rubbish in the streets, and a more stringent enforcement of the laws provided for such offenses, would result in a more tidy appearance of the streets, and make them safer for horses and bicycles.

In connection with this subject of highways, it seems proper for me to call your attention to street lighting and the cost thereof.

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The cost during the last year of street lighting was as follows:

For gas	$21,000
For electric light	231,045
For gasolene	31,500

The cost of lighting our streets has increased very rapidly in the last few years, until now the cost of electric lighting, alone, is greater than the entire yearly appropriation for maintaining, cleaning and repairing all of our streets. The cost of gas has decreased since 1888, from $61,141.95 to $21,000, but the cost of electric light has increased from $37,975.67 to $231,-045, making a net increase of $152,927.38. It is true that our streets are very well lighted, but, it is also apparent, that we are paying too much for this item of electric lights. There is very little doubt that this city could make its own light for not much more than half of what it is paying now. The fact that so many private business houses have been of late putting in their own plants for electric light, and saving money thereby, although small consumers, ought to convince this Council that the City of Providence, which is such a large consumer, could save a great deal of money every year by owning its own plant. In making this suggestion, I am fully aware of the clause in the act con-

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cerning the Narragansett Electric Lighting Company, passed at the January session of the General Assembly, 1892, with regard to the purchase of portions of its plant, whenever the city shall determine to make its own electric light, but do not consider that it presents any insurmountable obstacle to the city's having its own plant, at reasonable terms. I, therefore, advise the appointment of a joint special committee to inquire into the advisability of the city's purchasing and maintaining its own plant for the purpose of lighting by electricity its streets and public buildings.

SEWERS.

A portion of the Moshassuck division of the sewerage system comprised in the extension of Canal Street and Park Street is now being built. The committee on land for improved sewerage is negotiating for the right of way for the rest of the division, the construction of which will afford drainage for the northern portion of the city, located in the second and third wards. Rights of way for the main trunk sewer have been obtained for the northwestern section of the city, and it is anticipated that the sewer will be built during the present year. Sewage pumps at the Ernest Street station

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are in service, and all the sewage, excepting a small amount that empties into the Seekonk River, is now discharged at Field's Point. The method of the final treatment of the crude sewage is undecided, awaiting the results of the labors of the committee on manufacturers' waste. A report of that committee was presented to the Council July 20, 1897, and showed that a contract, most beneficial to the city, had been entered into with private individuals and certain of the manufacturers, the provisions of which, if carried out, would take care of the manufacturers' waste at no expense to the city or the manufacturers. This contract, however, is held in abeyance for the present by the refusal of two corporations to enter into the measures proposed.

WATER WORKS.

The income from the water works continues to be satisfactory, and the sum of $87,074.95 was transferred to the sinking funds at the end of the last fiscal year. During the period the water works were being built, the cost of material and labor was a great deal more than that of to-day. By reason of depreciation and reduced cost of the work, the estimated value of the water works to-day is less than

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the bonded indebtedness. In view of this financial condition, the Commissioner of Public Works thinks that it is not deemed advisable to make a further reduction of the water rates at present. Should the balance in favor of the water works continue, he hopes soon to be able to make a great reduction in favor of large consumers for manufacturing purposes. It would seem advisable to take such action at the earliest possible moment, if the city is to compete with other communities in rates offered to large consumers, and I believe that the increase in consumption would more than offset the change in rates. It is a well-known fact that large consumers are now making extensive use of driven wells on account of the great cost of city water. The use of these wells is rapidly increasing, and this fact may account for the decrease in the consumption of the city water during the year last past.

POLICE.

The high standard of this department has been maintained during the past year. Experience still shows that the further this department is removed from political influence, the higher will be its efficiency. The numerical strength of the force has been

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increased during the year by the addition of 12 patrolmen, making the total number 286. Of the arrests made during the year those of seven persons with burglars' tools in their possession are of the most importance.

Two of these persons were arrested while entering the jewelry district in the night time with tools and dynamite in their possession, prepared to blow a safe. Five were located in this city and arrested with an unusually large outfit of burglars' tools, dynamite, powder, fuses, etc. Two of these are now serving sentences in our state's prison. Three were delivered over to the authorities of Albany, New York, where they are now held for safe burglary. Two were released for lack of sufficient evidence, though one of them was recognized as a notorious and dangerous burglar. These arrests, with the addition of the gang that was broken up by our detectives in the town of Johnston, where two were captured who are now serving sentences in the Massachusetts state's prison, evidently prevented a large amount of crime from being committed in our city and vicinity.

The executive wishes the members of the police force to feel assured, as heretofore, that they will be supported by him to the fullest extent, in the proper

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performance of their duties, and that no surer means towards promotion can be found than faithful, honest work on their part.

HEALTH DEPARTMENT.

The health of the city during the last year has been better than the average during a number of years. The number of cases of contagious diseases has been considerably less than in the preceding year. This is particularly noticeable in typhoid fever. The number of deaths from this disease for twelve months ending December 1, 1897, was 21, while the smallest number ever recorded in any other twelve months was 39. The decrease in this disease is doubtless due to the improved sanitary condition of the city, and the greater care that is taken to prevent pollution of the Pawtuxet River. Nevertheless, it is very unsafe to rely upon the river patrol which is maintained by the Department of Public Works, no matter how efficient this may be, and it is much to be regretted that a well designed system of filtration has not been established. It is only by this means that certain protection can be afforded against epidemics of this disease.

The Superintendent of Health informs me that the

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principal cause for the persistence of scarlet fever and diphtheria among the children of this city is due to mild and unrecognized cases of these diseases. He is very anxious to have a medical inspection of the schools, as he believes that this would be the most useful step that could be taken to check the spread of contagious diseases, and I recommend the passage of such resolution as will carry this suggestion into effect.

A recent decision of the Supreme Court, establishing the right of the board of health to abate nuisances on the line of sewered streets, has enabled the Health Department to take prompt action in these cases, and it is hoped, that during the coming year, all vaults and cesspools will be abolished.

Health, gentlemen, is the poor man's capital, and should be protected by every known means, and with as much vigilance as the property of our merchants. All moneys properly expended in maintaining the public health, and preventing the spread of contagious disease, is a good investment, and no niggardly policy should be maintained in relation to this department.

I believe that the establishment of public baths in our city would do much toward promoting the health

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and cleanliness of our citizens, and would gladly second any action on your part toward their establishment.

The question of the public health leads me to consider another question in which I am interested, and which is yearly growing of importance, not only in our city, but throughout our country: that is, the tramp question.

From talks which I have had with our Overseer of the Poor, and upon investigation, I am convinced that something should be done at once toward furnishing a proper place for taking care of these persons, and am sure that it is just as economical to provide a clean, healthy breathing place for these unfortunates, as to force them into poorly ventilated and dirty lodging-houses, where they are at present sent at the expense of the city, and from which they emerge in the morning dirtier and more degraded than ever.

FIRE DEPARTMENT.

The fire department is well organized, well disciplined, and well equipped.

At present, the force consists of 244 permanent and 18 call men, all of whom are under the immediate control of the Board of Fire Commissioners, who are

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directly responsible for the workings of the department, and who devote the greater portion of their time to the management of its affairs. The most important improvement made during the year has been the completion of the new high pressure service for fire protection, at a cost of about $145,000. This service is connected with the Fruit Hill main at Randall Square, and extends through the principal portion of the business sections of the city. It consists of about 41,000 feet of 24″ pipe; 23,000 feet of 16″ pipe, and 2,300 feet of 12″ pipe, and connected therewith are 89 hydrants, each capable of immediately supplying six powerful streams. The pressure ranges from 85 to 120 pounds, while that of the old service in the same sections of the city varies from 50 to 65.

We have enjoyed comparative immunity from disastrous fires during the year, and in the case of the only large fire which we have had, that in the store of the Flint Company on Weybosset Street, the new service proved of incalculable value. Every hose company attached thereto immediately became an engine company, and having an ample supply of water, backed by an adequate pressure, was at once enabled to render prompt and efficient service. No other community can boast of a like system, and its adoption has

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already secured for our citizens substantial returns in the line of reduced insurance rates. The insurance companies have reduced the rates 5 per cent. for all buildings within 500 feet of these mains, and, it is hoped, that a still further reduction will be made in the future.

Another important improvement has been the substitution of the central office system of transmitting fire alarms in place of the automatic system which has been in the service in this city since 1871. The new system has been installed and placed in operation in the City Hall, and is of such capacity as to be amply sufficient for the requirements of the service for many years to come.

It is the duty of the fire department, not alone to extinguish fires, but to use every means in its power to prevent their occurrence, and all reasonable authority should be conferred upon the Board of Fire Commissioners in this direction.

The City Solicitor has been directed to apply to the General Assembly for the enactment of legislation increasing the power of the Board in this matter, and, in case such authority is obtained, there can be no doubt but what our citizens will be materially benefited.

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PARKS — ROGER WILLIAMS PARK.

At this park, work on the improvement was commenced the first of April, and continued until the appropriations became exhausted.

The grading and furnishing of the athletic grounds, with the completion of the drive on the northerly side of the park, will practically complete the improvements at Roger Williams Park.

The work already performed has furnished employment for a large number of indigent residents of the city, many of them with families dependent on them for support. During the progress of this work the number reached nearly four hundred for several months; the results obtained compare very favorably with those of the preceding year, and, as was then stated, demonstrates that with proper supervision, work of this character can be done better and with greater economy than by contract.

We have now a park which is one of the most beautiful in the world and is justly an object of pride to our citizens. The careful manner in which the money appropriated for park purposes has been expended is a matter of satisfaction to the public and reflects credit upon the Park Commissioners.

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BAND CONCERTS.

During the past summer, beginning the latter part of July and extending through August into September, open air concerts were given by Reeves' Band. These concerts were well patronized and proved a success from the very first, those on Friday and Saturday evenings being especially well attended. From the success attending this series of concerts during the past summer, the City Council should feel justified in making a more liberal appropriation for the coming season.

HARBOR.

The work of dredging our harbor so as to make the channel 25 feet deep and 400 feet wide from Sassafras Point through the Providence River and Narragansett Bay to the ocean, in accordance with the act of Congress passed June 3, 1896, was entered upon last year and has been steadily continued, two dredges being kept at work all the time. The completion of this work, supplementing that which has already been done by way of removing Green Jacket Shoal, and other obstructions, will cause great improvement to our harbor, rendering possible the entrance of larger ships, and providing greater

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anchorage for them. The work is of much importance to the city, and should result in large increase in our maritime commerce, for which our harbor presents many natural advantages. The city should be watchful on its part of that portion of the river above the point where the government work begins, and dredge the same whenever necessary, so that none of the work of the government will become impaired through our neglect. A liberal policy in this respect would, I believe, be amply repaid by natural results.

THE PUBLIC SCHOOLS.

The Public Schools are one of the most important departments of city administration. Though the schools are in charge of a committee elected for that special work and not perhaps directly responsible to the City Council, still the city must always regard with interest the administration of the schools, both because it is of the utmost importance that a good education should be furnished the youth of the city, and also because the expenses of the schools must be provided for by taxation that is levied by the City Council.

During the last ten years, and particularly during

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the last five years, the expenditure for new school buildings has been very great; and it would seem that a disproportionate amount has been spent for high school buildings. Our first care should always be for primary education. Good schoolhouses with good teachers should be provided for the children of the primary grades, then a like provision should be made for the grammar grades, that must always remain the finishing school for the great majority of our youth.

If we are compelled to economize in school expenditure, the reduction should fall upon the high schools, rather than upon any grades below, and upon the so-called special subjects of instruction, rather than upon the essentials of a practical education.

We seem to have built grammar schools beyond the need for grammar school pupils, for the grammar school buildings are not only occupied in some of their rooms by high school pupils, but nearly all of the grammar school buildings have several rooms occupied by primary pupils. The inference from this statement of facts is that hereafter for a considerable number of years we shall be called upon to build only primary schoolhouses.

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NEW POST OFFICE.

I endorse the action of the last City Council in reference to offering to the United States Government a site upon Exchange Place for a new post office building. This action will incur no extra outlay on the part of the city, and in no manner affect the present rate of taxation. The benefits to be derived to the city, from an edifice such as our senior Senator suggests, are apparent. It will complete the open square of Exchange Place in such a manner as to increase our pride in our city, and pride in one's city is always to be cultivated. It is one of the most important elements in procuring good government.

The location on Exchange Place is also most admirably adapted to the needs of our citizens. I wish our senior Senator, Honorable Nelson W. Aldrich, all success in this project which he has conceived for the benefit of the city, and know that he can erect no more enduring monument to his own usefulness.

BOARD OF CANVASSERS AND REGISTRATION.

I wish to call your attention to the subject of the Board of Canvassers and Registration, because, before long, it will become your duty to elect one of its mem-

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bers, and upon that election will depend the question whether or not this important body, whose power is absolute, whose decision is final, and upon whose judgment as to the validity or invalidity of a single ballot, in a close contest, may depend the result of a municipal election, shall continue to be entirely partisan. I have personally no charge to make against this body, but its actions have been criticised in the past, and some dissatisfaction with its decisions is from time to time expressed. I believe that it is not only of the most serious import that every voter entitled to cast a ballot should be allowed to exercise that privilege, but that his vote should be considered in a spirit most liberal to his intentions, and should be counted as he intended to cast it. In a close election, partisan prejudice, which it is useless to deny must exist in a body constituted as this one is, might bring about an exactly contrary result. In the last municipal election there was a tie vote for several members of the Common Council, and the city was in one instance put to the expense of a new election. An appeal to the Supreme Court upon the question of the validity of a single ballot might have saved this expense. I believe, therefore, that the act creating this body should be amended so that the decision of

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the Supreme Court may be obtained, whenever there may be dissatisfaction with the decisions of the Board of Canvassers, as to the validity of any of the ballots cast, and recommend that a resolution be passed calling upon the City Solicitor to ask of the General Assembly an amendment to this effect.

I recommend and urge upon you, gentlemen, that in the election of a member of that body, which will soon come up, that you consider seriously the advisability of electing one whose political faith is different from that of the other two members. I believe that such liberal action on your part would do much toward establishing in the public mind the confidence in that body which it should possess, and would elevate the body itself to that plane in the public estimation which it ought to occupy, a plane entirely above the reach of suspicion. Were the conditions reversed, I should make the same suggestions with equal earnestness.

STREET RAILROADS.

On the 8th day of November, 1895, clause X. of Section 1, of Chapter 667 of the City Ordinances, was amended so as to read as follows:

"Within six months after the first day of Novem-

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ber, A. D. 1895, the Union Railroad Company shall place upon every street railway car used for the transportation of passengers in the City of Providence a safe and suitable fender."

No attention was paid to that ordinance for a long time, but I am pleased to announce to you now that the Union Railroad Company has at last begun to equip its cars with fenders. It is hoped and believed that these fenders are of such a character as to prevent further loss of life in the manner that has been so forcibly and in so many instances called to our attention of late.

I wish I could state also that this Company had concluded to grant transfer tickets upon its lines, as requested by public will and vote of a former City Council, but it has not done so, and does not seem likely to, at present, resting secure, as it thinks, behind a most iniquitous act, which it was instrumental in lobbying through our General Assembly. Transfer tickets will, however, I believe, come in time; and whether the Union Railroad Company will grant them of its own accord, and get credit therefor, or be compelled to give them against its will, lies entirely with the Company. One thing is sure: the matter will not be allowed to die out from want of attention

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on the part of the city, and no corporation can hold out forever against the just demands of the public.

The question of compensation to be paid by the Union Railroad Company to the city for use of its streets for the second five years of its contract is still undetermined, although in the hands of referees. It is hoped that an early settlement of this question will be brought about, and the City Solicitor will do all in his power to assist in bringing the matter to a satisfactory conclusion. He has had his brief prepared in this case since last September, but has been unable to argue it owing to the enforced absence of Judge Putnam, one of the referees.

TERMINAL FACILITIES.

Our relations with the New York, New Haven and Hartford Railroad Company are in a most unsatisfactory state. With the new station almost complete, and with very little work for the city to do upon the approaches, the public have been deprived for months of the use of the station, because of unwillingness on the part of the Railroad Company to carry out the terms of its agreement with the city in the matter of train sheds. While it is a sacrifice on the

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part of the people to use the old, barren, and uncomfortable station, there is nothing else to be done for a time at least. The city has wisely taken the determined stand that the Railroad Company shall not enter upon and use the new station until proper provision has been made for the comfort and safety of the traveling public, and it will not yield one inch from the position taken, unless compelled to do so by superior force. There is every reason in the world for the city's fighting this matter out now to an absolute conclusion, for upon its determination depends the more important question, whether or not at all times in the future the interests of the City of Providence are to be subservient to the will of that great and powerful corporation.

FINANCES.

The condition of the finances of our city is not entirely satisfactory, for, while our credit is exceptionally good, our tax rate is high, and our valuations,— real estate at least, — large. Our personal property valuation is smaller than it has been for the last six years,— a matter for just comment and inquiry.

The report of the City Auditor shows a net increase of our debt during the last fiscal year of $519,874.89.

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Each year our debt grows steadily larger, and our assessments and tax rates keep pace with the increased debt. It is to be expected that in a growing city within a certain limit the debt will increase from year to year, but it is not always necessary that assessments and tax rates increase in equal proportion. If the city is really growing, new property, subject to taxation, ought to be discovered, of sufficient value to keep the tax rate and valuations from unduly increasing. The cause of our present condition is, it is believed, first, we have been too anxious to get everything at once, regardless of the size of the city's income; second, too little attention has been paid to devising means of enabling us to collect all that has been due to the city from its citizens; and third, we have wantonly sold to private corporations for small returns, privileges which in open market to-day would bring large amounts.

I think, gentlemen, that in the management of our city affairs we have paid too little attention to the axiom that "Time is an essential element in making a city, as well as in the accomplishment of any other great purpose." "Progress" in city building has always had an attractive sound, and extravagant officials have always liked to excuse their extravagance

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by declaring that they were "progressive." But "progress" which leads to overwhelming debt or burdensome taxation, is a step backward, and not a step ahead. It is a mere cover for that craze for spending money, to which nothing conduces more than ability to get credit and put off the day of payment until the burden shall fall upon the shoulders of those who are to follow. Had the same principle obtained in our city's affairs in the past that seems to obtain now, the principle of paying for things as we get them, we would not find ourselves now obliged to set aside yearly such large amounts for sinking fund purposes and for interest.

This thought leads me to consider a proposition for our relief which has lately been suggested: The proposition of refunding our entire debt and issuing new bonds for long terms, say for fifty or sixty years, or longer. I am opposed to this proposition on two grounds: First, it is not practicable; second, it is not politic. It is not practicable, because we could not get in our bonds to refund. The investors in city bonds are a conservative class who prefer to keep their investments without unnecessary changes, and are not speculators. Unless great inducements should be offered to them, which would offset any advantages

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to be derived from the change, they would not bring in their holdings, and even then it is doubtful if they would do so.

It is not politic because, First, bonds running for longer periods than twenty or thirty years do not find such ready customers as the medium term bonds, and will not sell at such advantage. Such terms as proposed are regarded by them as too long to look forward to, and in such a long time they think too many things may occur to impair stability.

Second, It is not politic to bind the city for such long terms to the present rates of interest. We should feel very sorry now if our five per cent. and six per cent. water bonds had twenty more years to run. Our four per cent. gold highway bonds sold in 1897 at a higher premium than our six per cent. water bonds sold for in 1871; and there is every reason to believe that rates of interest will be still lower in the future than they are now.

Third, Another objection to the proposition is in my mind the fact that few of the so-called "permanent" improvements would last as long as the term of the proposed bonds. I do not think, on business principles, that bonds should be issued for any longer period than the life of the thing which necessitates

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the bonds. It would not be adopted in ordinary business transactions, and they do not differ materially from municipal transactions. I have come to the above conclusions only after considerable investigation, and am pleased to say that inquiry among some of the ablest financiers and bankers of this country has convinced me that they are correct. What then are our remedies? They are, First, we must economize, paying for what we can, as we go; Second, we must devise means to obtain a larger income. It is unnecessary to dilate on the first proposition. It is too self-evident. We must face facts; they cannot be brushed aside. There are doubtless very many things which it would be desirable for the City of Providence to have, but which we have not the money to procure; so, like everybody else whose income is not equal to his desires, the city must wait.

How shall we increase our income? By obtaining from the General Assembly the earliest possible change in our laws, which now enable large values to escape taxation. These laws must be so changed that the property of corporations shall pay its just proportion of our taxes, as well as the property of individuals; and so that the property of both individuals and corporations, receiving the benefits of our institu-

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tions, whether belonging to residents or non-residents, shall contribute toward the support of these institutions. I think an inheritance tax would be a wise enactment and one which would enable the city to collect large sums of money which it can now reach in no possible way. Certain acts in relation to taxation have already been introduced in the Senate for the benefit of the State. It is claimed for them that they will benefit indirectly the various cities and towns; but I look for very little relief to our city from their passage. I regard them as of the greatest importance to the City of Providence, and for that reason call your attention to them, and would recommend the appointment of a joint special committee to confer with our representatives in the General Assembly in regard to them, as well as in regard to the act relating to the taxation of personal property introduced by request of the City Council in the House of Representatives in May last, and referred to the Judiciary Committee. The City of Providence is such an important part, financially at least, of the State of Rhode Island, that too intimate relations cannot exist between the City Council and its delegation in the General Assembly. They should work together and always be in touch with one another.

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This, gentlemen, is an imperfect statement of the condition of our municipal affairs, and a presentation of some of the problems which you will have to solve during the coming year. There are many more of which I have not spoken, but to which I shall call your attention from time to time as they arise. These, however, are some of the most important, and should be sufficient to convince you that great demand is to be made upon your time and talents during the coming year. The responsibility of managing the affairs of this city is as much yours as mine. Indeed, it is more yours than mine, for you have the power to enact measures as well as to propose them, while I can do little else than suggest. The present condition of our city, and the problems involved, are well known to all our citizens, and they expect us, as their chosen servants, to attend to them in a proper manner, and bring them to a safe solution.

It is of the utmost importance, therefore, that we to-day, forgetting all selfish ends, and remembering only the trust confided to us, dedicate to the city's good our best endeavors.

In conclusion, I wish to take this opportunity to publicly thank the heads of the several departments and

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their clerks for the kindly assistance they have rendered me since my election in preparing for my new duties; and to express the profound regret, which I know you all share, at the enforced absence from these ceremonies of him who has so ably and honestly for the past two years directed the affairs of our city.

Bringing to his office ability, courage and determination to do right, Mayor Edwin D. McGuinness during his administration has let no personal interests interfere with the performance of his duty. With only one thing in mind, — his city's good, — he has sacrificed even his health to that grand end. The example he has set of fidelity to his trust has placed him upon a plane as high in the estimation of our citizens as that ever reached by any of our former mayors, and should become a source of inspiration to all those who may hereafter succeed him.

That he may soon be restored to perfect health is the prayer, I know, of all who are here assembled.

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JOINT RULES

AND

JOINT COMMITTEES

OF THE

CITY COUNCIL.

ORDINANCES OF THE CITY OF PROVIDENCE. CHAPTERS 8, 59 AND 462.

COMMITTEES OF THE CITY COUNCIL.

SECTION 1. There shall be annually appointed by the City Council, immediately after the organization of the city government, the following joint standing committees, who shall hold their offices until the expiration of the current municipal year, viz.: A committee on finance; a committee on highways; a committee on education; a committee on the fire department; a committee on city property; a committee on police; a committee on ordinances; a committee on claims; a committee on printing; a committee on parks; a committee on railroads; a committee on sewers; a committee on the North Burial Ground; a committee on the harbor; a committee on lamps; and a committee on water, each of which committees shall consist of four members of the Common Council and one Alderman; also a committee on the city debt, which shall consist of the Mayor, the president of the Board of Aldermen, the president of the Common Council,

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the chairman of the joint standing committee on finance, and one member of the Common Council, to be appointed by the president thereof; and a committee on the City Engineer's department, to consist of the Mayor, the president of the Board of Aldermen, the president of the Common Council, the chairman of the joint standing committees on highways and sewers, and one member of the Common Council to be appointed by the president thereof.

SEC. 2. The Board of Aldermen shall constitute the advising committee on bridges, and the said board shall cause all the public bridges to be kept in good repair, but shall not build any new bridges or expend in any one year on any bridge, except a draw-bridge, more than five hundred dollars, nor on any draw-bridge more than two thousand dollars, unless empowered to do so by the City Council.

SEC. 3. Joint committees, whether standing or special, shall have power to elect their own chairman, and in default of such election, the member first named on a committee shall be chairman thereof, and in case of his resignation or inability, the other members in the order in which they are named, shall act as chairman.

SEC. 4. Joint standing committees shall cause a record of their proceedings to be kept in a book to be provided by the city for that purpose, and no report shall be received unless agreed to in committee actually assembled.

SEC. 5. Every joint committee to whom any subject shall have been referred, shall report thereon, within four weeks, to the branch making such reference, or shall ask for further time; and all joint special committees shall report to the City Council, at least once in three months, the condition of the matter referred to them; and shall, also, annually in the

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month of January, make to the City Council a full report of the matter referred to them, and shall thereupon be *ipso facto* discharged from the further consideration of the matter referred to them, unless they shall, by joint resolution, be continued as such special committee.

SEC. 6. All reports and other papers submitted to the Council shall be written in a fair hand and on separate sheets of paper, and shall be suitably indorsed by the member presenting the same; and no other indorsement or report of any kind shall be made on the reports, memorials, or other papers which may be referred to any joint committee, except such as may be made by the clerk of either board of the City Council. All reports shall be signed by the writer thereof, unless otherwise ordered by the committee.

SEC. 7. No chairman of any joint committee shall audit or approve any bill or account against the city for services or supplies, unless the same shall have been ordered by the committee, nor shall he approve any bill or account except by vote of the committee.

SEC. 8. There shall be elected annually in the month of January, by ballot, in each branch of the City Council, a joint committee on accounts, to consist of two on the part of the Board of Aldermen and five on the part of the Common Council, whose duty it shall be to meet once a month and as much oftener as they may deem expedient.

SEC. 9. Whenever any vote shall be taken in either branch of the City Council upon any ordinance, resolution or order involving the expenditure of money, the ayes and noes shall be called.

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RULES OF ORDER

OF THE

BOARD OF ALDERMEN.

[Adopted January 3, 1898.]

FIRST.

The Mayor, and in his absence the president of the board, shall preside, but in the absence of both the Mayor and the president, the members present shall elect one of their number to preside *pro tempore.*

SECOND.

The chair shall preserve decorum and order, may speak on points of order in preference to other members, and shall decide all points of order subject to an appeal to the board by motion regularly seconded, and no other business shall be in order till the question on appeal shall have been decided by a majority vote of the members present.

THIRD.

Any member desiring to speak, shall address the chair and after his right to speak has been recognized, he shall not be interrupted while speaking, except by a call to order, or for the correction of a mistake; he shall confine his remarks

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to the question under debate, and shall avoid personalities; there shall be no conversation among members while such member is speaking, while a paper is being read, or while a question is being stated from the chair.

FOURTH.

The chair shall enforce order and decorum among persons outside the bar, and any person addressing the board by permission or by request, shall, while speaking, be subject to the same rules and entitled to the same privileges of order as pertain to a member of the board; provided, however, that a member of the board may interrupt such speaker for the purpose of asking a question or of obtaining information.

FIFTH.

When a question is under debate, the chair shall receive no motion except "to adjourn," "to lay on the table," "to postpone to a day specified or indefinitely," "to commit," "to amend," which several motions shall have precedence in the order here named.

SIXTH.

When a vote has been passed, it shall be in order for any member to move a reconsideration thereof at the same meeting, or to give notice in writing of his intention to move a reconsideration at the next meeting; in which case the clerk shall retain possession of the papers until the next meeting but no longer; and when a motion to reconsider has been decided, that vote shall not be reconsidered.

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SEVENTH.

Every member who shall be present when a question is put shall vote thereon, unless excused for reasons to be stated at the time, and by two-thirds of the members present voting in the affirmative, without debate.

EIGHTH.

Every ordinance, resolution or order, after being read, shall be laid on the table until the next meeting, at the request of three members, but shall not lie on the table for a longer time, except by special vote or general consent.

NINTH.

The order of business at each meeting shall be as follows:

1. Referred business, including citations grading and receiving streets, and other matters connected with the highways.

2. New business, consisting of executive communications, petitions, memorials, remonstrances, reports, motions, orders, resolutions, elections, granting licenses.

3. Papers from the Common Council.

Provided, however, that at all meetings specially called by the Mayor, the special business for which such meetings is called shall be first in order, and shall be taken up and exclusively considered until it is finally acted upon at such meeting and no other business shall be acted upon or considered at such meeting except by the unanimous consent of the board.

TENTH.

No person shall be allowed inside the bar, during the sessions of the board, excepting members and officers of the

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board and the reporters of newspapers employed to do the city printing; unless by special invitation from the chair, or from a member of the board through and with the approval of the chair.

ELEVENTH.

Heads of departments having reports to make or business to present to the board, shall give notice to the clerks of their intention to present such reports of business at least two days before the meeting of the board, in order that the same may be placed upon the docket, and members having business to present, shall, as far as possible, conform to the same rule.

TWELFTH.

The Mayor shall appoint all committees of the board, and shall also appoint Aldermen to all joint committees of the City Council; and the clerk of said board shall be ex-officio clerk of all standing and special committees of the Board of Aldermen.

THIRTEENTH.

There shall be annually appointed, immediately after the organization of the Board of Aldermen, the following standing committees, who shall hold their offices until the expiration of the current municipal year, viz.: A committee on armories, and a committee on auctioneers, each of which shall consist of two Aldermen; a committee on bridges, a committee on constables, a committee on health department, a committee on lamps, a committee on police, a committee on shows, a committee on street signs and numbers, a committee on streets, a committee on milk, and a committee on damages

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under the dog law, each of which shall consist of three Aldermen. There shall also be appointed a committee on the poor department, which shall consist of three Aldermen, who shall have the general supervision of the poor department, and all bills contracted or expenditures incurred by the Overseer of the Poor shall be approved by said committee. There shall also be appointed a committee on hackney carriages, which shall consist of three Aldermen, who shall have the supervision of the granting of licenses for hackney carriages and other vehicles.

FOURTEENTH.

The foregoing rules shall not be altered, amended, suspended or repealed at any time, except by the vote of the majority of the whole number elected.

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RULES OF ORDER

OF THE

COMMON COUNCIL.

[Adopted January 3, 1898.]

FIRST.

The President shall take the chair at the hour appointed for the meeting by the Council, and shall call the members to order on the appearance of the quorum, and shall cause the journal of the preceding meeting to be read.

SECOND.

He shall preserve decorum and order; may speak on general questions as other members, and, on points of order, in preference to other members. He shall decide all questions of order, subject to an appeal to the Council by any one member.

THIRD.

Every question shall be distinctly put by the President. When a vote is taken by ayes and noes, and the President doubts, or a division be called for, the Council shall divide.

FOURTH.

Every member present, when a question is put, shall give his vote, unless the Council, for special reasons, excuse him.

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FIFTH.

Every motion shall be reduced to writing if the President directs, or any member of the Council requests it, and may be withdrawn before a decision or amendment.

SIXTH.

When a question is under debate, no motion shall be received, unless "to adjourn," "to lay on the table," "to postpone indefinitely," "to postpone to a day certain," "to commit," "to amend," which several motions shall have precedence in the order in which they are here arranged.

SEVENTH.

No motion or proposition of a subject different from that under consideration shall be admitted under color of amendment.

EIGHTH.

When a vote has been passed, it shall be in order for any member to move a reconsideration thereof at the same meeting, or to give notice in writing of his intention to move a reconsideration at the next adjourned meeting; in the latter case the Clerk shall retain possession of the papers until the next adjourned meeting; and when such notice of an intention to reconsider has been given, no subsequent motion to reconsider the vote passed shall be in order at the same meeting, unless upon a withdrawal of the notice; and when a motion to reconsider has been decided that vote shall not be reconsidered; and the same resolution shall come but once before the Council for reconsideration.

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NINTH.

The following order of business shall be observed in all cases:

After the Clerk shall have read the record of the preceding meeting, which record is hereby made the duty of the Clerk to keep, communications from the Mayor shall then be received, read and disposed of.

The unfinished business in which the Common Council was actually engaged at the time of its last adjournment shall then be taken up and disposed of. No other unfinished business shall be in order.

The President shall next call upon the standing committees for their reports in the following order, viz.:

Ordinances,	Education,
Finance,	Printing,
Claims,	North Burial Ground,
Highways,	Harbor,
Sewers,	Accounts,
Fire Department,	Parks,
Police,	Lamps, and
Railroads,	Water,
City Property,	

and their reports shall be received and disposed of; and no other reports shall be made by the standing committees at that meeting.

The President shall next call upon special committees for their reports; and their reports shall be received and disposed of; and no other reports shall be made by any special committee at that meeting.

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Business which may have been received from the Board of Aldermen shall next be taken up and disposed of.

The President shall then call for petitions and miscellaneous business, which shall be received and disposed of.

No business shall be offered, received, or acted upon, except in the foregoing order, except that a motion to adjourn, and a motion to invite the Board of Aldermen to join the Common Council in convention shall always be in order, and may be acted upon at any time during the meeting.

Questions respecting priority of business shall be decided without debate.

Provided, however, that at all meetings specially called by the Mayor, the special business for which such meeting is called shall be first in order, and shall be taken up and exclusively considered until it is finally acted upon at such meeting, and no other business shall be acted upon at such meeting, except by vote of two-thirds of the members present.

TENTH.

Any rule may be amended or repealed by a majority of two-thirds of the members voting after one day's notiee. The same majority may by vote dispense with any rule for the meeting at which such vote is had.

ELEVENTH.

All committees shall consist of four members, and shall be appointed by the president, unless the Council shall order otherwise. And no report not in writing shall be received by the president without the consent of the Council being first asked and had.

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TWELFTH.

No member shall speak more than once on the same question, until all other members desiring to speak thereon shall have done so; and no member shall speak more than twice on the same question, if any member objects, without the permission of the Council being first asked and obtained.

THIRTEENTH.

A special order of business may at any time be voted by the Council for its next ensuing meeting, which order so voted shall in such case have precedence, for that meeting, of the order hereinbefore established.

FOURTEENTH.

It shall be the duty of the Clerk of the Common Council, in person or by deputy, to transmit from the Common Council to the Board of Aldermen, all such papers and communications as should be transmitted to said board.

FIFTEENTH.

It shall be the duty of the Clerk of the Common Council to transmit to the Mayor all papers and communications finally acted upon by the Common Council, and requiring the action of the Mayor.

SIXTEENTH.

Every ordinance presented shall, before being finally acted upon, have two readings, the first at the meeting in which said ordinance is presented, and the second at the next regular meeting, *provided, however*, that both meetings shall not occur upon the same date, and it shall be the duty of the Clerk of the Common Council to indorse upon said ordinances the date which said readings are held.

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SEVENTEENTH.

All committees and heads of departments having reports to make, or business to present to the Common Council shall give notice to the Clerk of their intention to present such reports or business at least three days before the meeting of the Common Council, in order that the same may be printed upon the docket; and no such report or business shall be considered unless notice of the same shall have been given as herein provided.

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GOVERNMENT
OF THE
CITY OF PROVIDENCE.
1898.

MAYOR,

WILLIAM. C. BAKER,

No. 131 Hope street.

BOARD OF ALDERMEN.

PRESIDENT,

IRA WINSOR.

FIRST WARD,

WALTER B. VINCENT . . . . No. 192 Waterman street.

SECOND WARD,

ABRAHAM A. GRAY . . . . No. 59 Blackstone boulevard.

THIRD WARD,

DENNIS F. McCARTHY . . . . No. 248 Charles street.

FOURTH WARD,

HENRY B. WINSHIP . . . . Narragansett Hotel.

FIFTH WARD,

WILLIAM K. REYNOLDS . . . No. 394 Friendship street.

SIXTH WARD,

JAMES F. FREEMAN . . . . No. 287 Washington avenue.

SEVENTH WARD,

HORACE REMINGTON . . . . No. 172 Adelaide avenue.

EIGHTH WARD,

EDWIN LOWE . . . . . No. 1427 Westminster street.

NINTH WARD,

IRA WINSOR . . . . . No. 9 Brighton street.

TENTH WARD,

JAMES H. McGANN . . . . . No. 7 Keplar street.

CLERK,

WILLIAM E. CLARKE,

No. 118 Williams street,

CITY SERGEANT

EDWARD S. RHODES,

No. 36 Harvard avenue.

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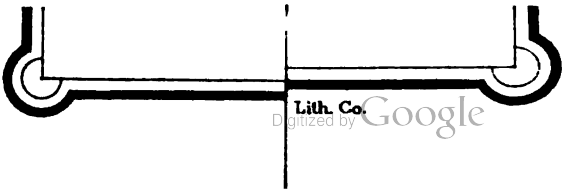

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COMMON COUNCIL.

PRESIDENT.

JOSEPH H. KENDRICK.

First Ward.	Residence.
TIMOTHY F. DWYER,	No. 282 Gano street.
SAM H. BULLOCK	No. 28 Pitman street.
FRANK L. HINCKLEY	No. 89 Waterman street.
G. RICHMOND PARSONS	No. 276 George street.
Second Ward.	
STEPHEN A. COOKE	No. 158 Bowen street.
AUGUSTINE JONES	Friends' School.
GEORGE P. PETERSON	No. 55 Howell street.
CHARLES SISSON	No. 116 East avenue.
Third Ward.	
JAMES BURDICK	No. 145 Smith street.
JAMES H. KELLY	No. 14 Mulberry street.
DANIEL J. O'CONNELL	No. 106 Cross street.
DENNIS H. SHEAHAN	No. 905 Branch avenue.
Fourth Ward.	
WILLIAM BLAKELY	No. 95 Broadway.
JOSEPH H. KENDRICK	No. 32 Stewart street.
ALLEN A. PRESBREY	No. 121 Broadway.
GARDNER T. SWARTS	No. 97 Broad street.
Fifth Ward.	
WILLIAM ANDREWS	No. 365 Blackstone street.
JOHN W. ANGELL	No. 230 Friendship street.
MARINUS W. GARDINER	No. 149 Clifford street.
JOSEPH D. GRINNELL	No. 433 Pine street.

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Sixth Ward.	Residence.
THOMAS H. LEONARD	No. 88 Wesleyan avenue.
FRANCIS W. MINER, Jr.	No. 3 Temple street.
EUGENE M. SAWIN	No. 13 Wesleyan avenue.
JAMES K. TRASK	No. 76 Ocean street.

Seventh Ward.	
MARVIN E. ALLEN	No. 62 Moore street.
LEWIS E. DAVIS,	No. 17 Hawthorne st.
J. WILLIAM MOORE	No. 120 Moore street.
WILLIAM N. OTIS	No. 36 Arch street.

Eighth Ward.	
A. HERBERT ARNOLD	No. 790 Westminster street.
JOHN O. DARLING	No. 113 Messer street.
HENRY FLETCHER	No. 21 Wood street.
HENRY A. GRIMWOOD	No. 15 Hammond street.

Ninth Ward.	
JOHN P. FARNSWORTH	No. 42 Tobey street.
WILLIAM H. MORGAN	No. 343 Broadway.
BURMAH E. PERKINS	No. 270 Knight street.
BENJAMIN W. SPINK	No. 243 Broadway.

Tenth Ward.	
JEREMIAH H. HALL	No. 265 Academy avenue.
LUKE KAVANAGH	No. 67 Manton avenue.
TIMOTHY E. MOLLOY	No. 371 Smith street.
THOMAS F. WEST	No. 182 Academy avenue.

CLERK,

DANIEL F. HAYDEN,

No. 206 Doyle avenue.

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JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

FOR THE YEAR 1898.

ACCOUNTS.

JOHN W. ANGELL, *Chairman.*

WILLIAM BLAKELY,
JAMES K. TRASK,
WILLIAM H. MORGAN,
ALLEN A. PRESBREY,
WILLIAM K. REYNOLDS,
ABRAHAM A. GRAY.

CITY DEBT.

WILLIAM C. BAKER,	Mayor.
IRA WINSOR,	President of the Board of Aldermen.
JOSEPH H. KENDRICK,	President of the Common Council.
JOHN W. ANGELL,	Chairman of the Committee on Finance.
SAM H. BULLOCK,	Member of the Common Council.

CITY ENGINEER'S DEPARTMENT.

WILLIAM C. BAKER,	Mayor.
IRA WINSOR,	President of the Board of Aldermen.
JOSEPH H. KENDRICK,	President of the Common Council.
LEWIS E. DAVIS,	Chairman of the Committee on Highways.
WILLIAM BLAKELY,	Chairman of the Committee on Sewers.
JOSEPH D. GRINNELL,	Member of the Common Council.

RELIEF OF DISABLED FIREMEN AND POLICEMEN.

WILLIAM C. BAKER,	Mayor.
DENNIS F. McCARTHY,	Chairman of the Police Committee of the Board of Aldermen.
JOSEPH H. KENDRICK,	President of the Common Council.
JAMES BURDICK,	Chairman of the Joint Committee on the Fire Department.

CITY PROPERTY.

BURMAH E. PERKINS, *Chairman.*

JAMES K. TRASK,
WILLIAM BLAKELY,
TIMOTHY E. MOLLOY,
ABRAHAM A. GRAY.

CLAIMS.

ALLEN A. PRESBREY, *Chairman.*

JAMES K. TRASK,
JAMES H. KELLY,
CHARLES SISSON.
DENNIS F. McCARTHY.

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EDUCATION.

MARINUS W. GARDINER, *Chairman.*

AUGUSTINE JONES,
GARDNER T. SWARTS,
JEREMIAH H. HALL,
EDWIN LOWE.

FINANCE.

JOHN W. ANGELL, *Chairman.*

WILLIAM BLAKELY,
J. WILLIAM MOORE,
BENJAMIN W. SPINK,
HENRY B. WINSHIP.

FIRE DEPARTMENT.

JAMES BURDICK, *Chairman.*

BURMAH E. PERKINS,
FRANCIS W. MINER, JR.,
G. RICHMOND PARSONS,
IRA WINSOR.

HARBOR.

JOSEPH D. GRINNELL, *Chairman.*

CHARLES SISSON,
MARVIN E. ALLEN,
FRANK L. HINCKLEY,
JAMES F. FREEMAN.

HIGHWAYS.

LEWIS E. DAVIS, *Chairman,*

THOMAS H. LEONARD,
JOHN O. DARLING,
THOMAS F. WEST,
JAMES H. McGANN.

LAMPS.

DENNIS H. SHEAHAN, *Chairman.*

THOMAS H. LEONARD,
MARVIN E. ALLEN,
LEWIS E. DAVIS,
IRA WINSOR.

NORTH BURIAL GROUND.

HENRY A. GRIMWOOD, *Chairman.*

GARDNER T. SWARTS,
A. HERBERT ARNOLD,
TIMOTHY E. MOLLOY,
WILLIAM K. REYNOLDS.

ORDINANCES.

FRANCIS W. MINER, JR., *Chairman.*

STEPHEN A. COOKE,
DENNIS H. SHEAHAN,
THOMAS F. WEST,
WALTER B. VINCENT.

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PARKS.

AUGUSTINE JONES, *Chairman.*

LUKE KAVANAGH,
EUGENE M. SAWIN,
DANIEL J. O'CONNELL,
JAMES F. FREEMAN.

POLICE.

JAMES H. KELLY, *Chairman.*

WILLIAM H. MORGAN,
LUKE KAVANAGH,
HENRY FLETCHER,
DENNIS F. McCARTHY.

PRINTING.

JAMES K. TRASK, *Chairman.*

JOHN W. ANGELL,
WILLIAM H. MORGAN,
JAMES BURDICK,
JAMES H. McGANN.

RAILROADS.

J. WILLIAM MOORE, *Chairman.*

A. HERBERT ARNOLD,
MARINUS W. GARDINER,
BENJAMIN W. SPINK,
WALTER B. VINCENT.

SEWERS.

WILLIAM BLAKELY, *Chairman.*

DANIEL J. O'CONNELL,
GEORGE P. PETERSON,
JOHN P. FARNSWORTH,
HORACE REMINGTON.

WATER.

JAMES K. TRASK, *Chairman.*

WILLIAM ANDREWS,
HENRY A. GRIMWOOD,
WILLIAM N. OTIS,
EDWIN LOWE.

CLERK OF COMMITTEES,

DANIEL F. HAYDEN,

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STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

FOR THE YEAR 1898.

ARMORY COMMITTEE.

WALTER B. VINCENT, *Chairman.* HORACE REMINGTON.

COMMITTEE ON AUCTIONEERS.

WILLIAM K. REYNOLDS, *Chairman.* HENRY B. WINSHIP.

BRIDGE COMMITTEE.

WILLIAM K. REYNOLDS, *Chairman.*

ABRAHAM A. GRAY, WALTER B. VINCENT.

COMMITTEE ON CONSTABLES.

ABRAHAM A. GRAY, *Chairman.*

WILLIAM K. REYNOLDS, IRA WINSOR.

DAMAGE UNDER DOG LAW.

DENNIS F. McCARTHY, *Chairman.*

HENRY B. WINSHIP, EDWIN LOWE.

HACKNEY CARRIAGES.

JAMES F. FREEMAN, *Chairman.*

EDWIN LOWE, JAMES H. McGANN.

COMMITTEE ON HEALTH DEPARTMENT.

HORACE REMINGTON, *Chairman.*

JAMES H. McGANN, ABRAHAM A. GRAY.

LAMP COMMITTEE.

IRA WINSOR, *Chairman.*

DENNIS F. McCARTHY, JAMES F. FREEMAN.

COMMITTEE ON MILK.

EDWIN LOWE, *Chairman.*

DENNIS F. McCARTHY, WALTER B. VINCENT.

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POLICE COMMITTEE.

DENNIS F. McCARTHY, *Chairman.*

ABRAHAM A. GRAY, HORACE REMINGTON.

POOR DEPARTMENT COMMITTEE.

HENRY B. WINSHIP, *Chairman.*

JAMES F. FREEMAN, IRA WINSOR.

COMMITTEE ON SHOWS.

JAMES H. McGANN, *Chairman.*

IRA WINSOR, WILLIAM K. REYNOLDS.

STREET COMMITTEE.

JAMES H. McGANN, *Chairman.*

HENRY B. WINSHIP, EDWIN LOWE.

COMMITTEE ON STREET SIGNS AND NUMBERS.

WALTER B. VINCENT, *Chairman.*

HORACE REMINGTON, JAMES F. FREEMAN.

CLERK,

WILLIAM E. CLARKE.

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JOINT SPECIAL COMMITTEES OF THE CITY COUNCIL.

PENDING SUITS.

[Under resolution No. 8, series 1898.]

STEPHEN A. COOKE, *Chairman.*

JAMES K. TRASK,
ALLEN A. PRESBREY,
SAM H. BULLOCK,
WALTER B. VINCENT,
EDWIN LOWE,
DENNIS F. McCARTHY.

UPON TRAIN SHEDS, TREATMENT OF EXCHANGE PLACE, AND THE LAND ADJOINING THE NEW RAILROAD PASSENGER STATION, DISPOSITION OF OLD AND OPENING OF NEW PASSENGER STATION, AND THE ABOLISHMENT OF SABIN STREET CROSSING.

[Under resolution No. 480, series 1897, and No. 18, series 1898.]

WILLIAM C. BAKER, *Mayor and Chairman.*

EDWIN D. McGUINNESS,
HOWARD O. STURGES,
STEPHEN A. COOKE,
WILLIAM BLAKELY,
DENNIS F. McCARTHY,
IRA WINSOR.

TO PROCURE MAYOR'S PORTRAIT.

[Under resolution No. 19, approved January 4, 1898.]

EDWIN LOWE, *Chairman.*

JAMES H. McGANN,
JOHN P. FARNSWORTH,
JOHN O. DARLING,
JOSEPH D. GRINNELL,
DENNIS H. SHEAHAN.

MANUFACTURERS' WASTE.

[Under resolution No. 313, series 1890, Board of Aldermen, March 5, 1891, and resolution No. 396, series 1896. Continued by resolution No. 35, series 1898.]

GEORGE L. VOSE, *Chairman.*

WILLIAM BLAKELY,
ELISHA H. ROCKWELL,
CHARLES E. HARRIS,
SAMUEL T. DOUGLAS,
ARTHUR W. DENNIS.

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TO REPRESENT THE CITY BEFORE THE ARBITRATORS APPOINTED TO ADJUST THE YEARLY RATE TO BE PAID BY THE UNION RAILROAD COMPANY.

[Under resolution No. 191, series 1897. Continued by resolution No. 35, series 1898.]

WILLIAM C. BAKER, *Mayor and Chairman*

HOWARD O. STURGES, WILLIAM L. WHIPPLE,
J. WILLIAM MOORE, EDWIN LOWE,
AUGUSTINE JONES, ROBERT W. BURBANK,

FRANCIS COLWELL, *City Solicitor.*

TO EXAMINE AND REPORT CERTAIN CHANGES IN THE ORDINANCES AND RESOLUTIONS RELATIVE TO LICENSES AND COMMISSIONS.

[Under resolution No. 259, series 1897. Continued by resolution No. 35, series, 1898.]

WILLIAM K. REYNOLDS, *Chairman.*

EDWIN LOWE, ALLEN A. PRESBREY,
JOHN W ANGELL, THOMAS H. LEONARD,

TIMOTHY E. MOLLOY.

TO PURCHASE LAND FOR SEWERAGE PURPOSES.

[Under resolution No. 524, series 1887. Common Council, January 7, 1889. Continued by resolution No. 35, series 1898.]

WILLIAM C. BAKER, *Mayor and Chairman.*

WILLIAM H. COVELL, CHARLES F. SAMPSON.

RELATIVE TO WIDENING OF EAST AVENUE FROM ROCHAMBEAU AVENUE TO THE CITY LINE.

[Under resolution No. 147, series 1897. Continued by resolution No. 35, series 1898.]

CHARLES SISSON, *Chairman.*

SAMUEL WHITELEY, SAM H. BULLOCK,
JOHN P. SMITH, ROBERT W. BURBANK

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RELATIVE TO CITY WORK.

[Under resolution No. 272, series 1897. Continued by resolution No. 35, 1898.]

DENNIS H. SHEAHAN, *Chairman.*

FRANCIS W. MINER, JR., WILLIAM L. WHIPPLE,
LUKE KAVANAGH, JAMES H. McGANN,
IRA WINSOR.

TO REPORT UPON THE ADVISABILITY OF ANNEXING ANY PORTION OF JOHNSTON OR OTHER TOWN.

[Under resolution No. 34, series 1898.]

JOHN W. ANGELL, *Chairman.*

AUGUSTINE JONES, JAMES H. McGANN,
WILLIAM N. OTIS, WILLIAM K. REYNOLDS,
JEREMIAH H. HALL, EDWIN LOWE.

SENATOR ANTHONY PRIZE FUND.

[Under Chapter 103 of the Ordinances, approved December 8, 1887.]

WILLIAM C. BAKER, *Mayor and Chairman.*

JOSEPH H. KENDRICK, President of the Common Council.
MARINUS W. GARDINER, Chairman of Committee on Education.
WALTER H. BARNEY, President of School Committee.
HORACE S. TARBELL, Superintendent of Public Schools.

TO REPORT AN ORDINANCE RELATIVE TO PLACING HIGH TENSION ELECTRIC WIRES UNDERGROUND.

[Under Resolution No. 64, Series 1898.]

HENRY B. WINSHIP, *Chairman.*

ABRAHAM A. GRAY, DENNIS H. SHEAHAN,
IRA WINSOR, J. WILLIAM MOORE,
AUGUSTINE JONES, BENJAMIN W. SPINK.

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COMMISSIONS.

COMMISSIONER OF PUBLIC WORKS.

ROBERT E. SMITH.

BOARD OF FIRE COMMISSIONERS.

STILLMAN WHITE, *Chairman.*

WILLIAM H. LUTHER, DEXTER GORTON,

PARK COMMISSIONERS.

RICHARD H. DEMING, *Chairman.*

FRANK F. OLNEY, EDWIN D. McGUINNESS,

COMMISSIONERS OF SINKING FUNDS.

WILLIAM C. BAKER, *Mayor and Chairman.*

WILLIAM S. HAYWARD, D. L. D. GRANGER, *ex-officio.*
JOHN G. MASSIE, PHILIP S. CHASE, *ex-officio.*
HENRY R. BARKER, JOHN W. ANGELL, *ex-officio.*

COMMISSIONERS OF DEXTER DONATION.

WILLIAM C. BAKER, *Mayor and Chairman.*

BENJAMIN B. KNIGHT, GEORGE W. R. MATTESON,
WILLIAM S. HAYWARD, GEORGE E. MARTIN,
ROYAL C. TAFT.

COMMISSIONERS OF NORTH BURIAL GROUND.

WILLIAM K. REYNOLDS, *Chairman and Secretary*

GEORGE L. PIERCE, A. HERBERT ARNOLD,
HENRY A. GRIMWOOD, *ex-officio.*

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LICENSE COMMISSIONERS.

JOHN L. SPRAGUE *Chairman,*

GEORGE H. BURNHAM, JOHN M. STUDLEY,
CHARLES EDWARD PAINE, THOMAS NIXON, *Clerk.*

RECORD COMMISSIONERS.

HORATIO ROGERS, *Chairman.*
EDWARD FIELD, *Secretary.*

NEW CITY CHARTER.

[Resolution approved February 21, 1896. Continued by resolution No. 35, series 1898.]

WILLIAM C. BAKER, *Mayor and Chairman.*

CHARLES C. NICHOLS, CHARLES SISSON,
ROBERT B. LITTLE, WILLIAM GAMMELL,
RATHBONE GARDNER, ARTHUR L. BROWN.

BOARD OF CANVASSERS AND REGISTRATION.

JASON P. STONE, *Chairman.*

CHARLES E. SMITH *Clerk.* JOHN T. BLODGETT.

BOARD OF APPEAL FROM THE ACTIONS OR DECISIONS OF THE INSPECTOR OF BUILDINGS.

[Appointed by the Mayor under Chapter 992 of the Public Laws.]

ABRAHAM A. GRAY, *Chairman.*

GEORGE F. HALL, THOMAS F. GILBANE,
WILLIAM E. CLARKE, *Clerk.*

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Alphabetical List of Members of the City Council Together with a List of Their Respective Committees.

Aldermen. Committees.

WINSOR, IRA, *President.*

Joint Committees—City Debt, City Engineer's Department, Fire Department, Lamps.

Board of Aldermen—Constables, Lamps, Poor Department, Shows.

Joint Special—Train Sheds, New and Old Passenger Stations and Exchange Place, City Work.

FREEMAN, JAMES F.

Joint Committees—Harbor, Parks.

Board of Aldermen—Hackney Carriages, Lamps, Poor Department, Street Signs and Numbers.

GRAY, ABRAHAM, A.,

Joint Committees—Accounts, City Property.

Board of Aldermen—Bridges, Constables, Health, Police.

LOWE, EDWIN

Joint Committees—Education, Water.

Board of Aldermen—Damage under Dog Law, Hackney Carriages, Milk, Streets.

Joint Special—Pending Suits, Mayor's Portrait, to represent the City in re. Arbitrators and Union R. R. Co., Licenses and Commissions, Annexation of Portion of Johnston and other Towns.

McCARTHY, DENNIS F.

Joint Committees—Relief Disabled Firemen and Policemen, Claims, Police.

Board of Aldermen—Damage under Dog Law, Lamps, Milk, Police,

Joint Special—Pending Suits, Train Sheds, New and Old Passenger Stations and Exchange Place.

McGANN, JAMES H.

Joint Committees—Highways, Printing.

Board of Aldermen—Hackney Carriages, Health, Shows, Streets.

Joint Special—Mayor's Portrait, City Work, Annexation of Portion of Johnston and other Towns.

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Aldermen. Committees.

REMINGTON, HORACE

Joint Committee—Sewers.

Board of Aldermen—Armories, Health, Police, Street Signs and Numbers.

REYNOLDS, WILLIAM K.

Joint Committees—Accounts, North Burial Ground.

Board of Aldermen—Auctioneers, Bridges, Constables, shows.

Joint Special—Licenses and Commissions, Annexation of Johnston and other Towns.

VINCENT, WALTER B.

Joint Committees—Ordinances, Railroads.

Board of Aldermen—Armories, Bridges, Milk, Street Signs and Numbers.

Joint Special—Pending Suits.

WINSHIP, HENRY B.

Joint Committee—Finance.

Board of Aldermen—Auctioneers, Damages under Dog Law, Poor Department, Streets.

Councilmen. Committees.

KENDRICK, JOSEPH H., *President.*

Joint Committees—City Debt, City Engineer's Department, Relief Disabled Firemen and Policemen.

ALLEN, MARVIN E.

Joint Committees—Harbor, Lamps.

ANDREWS, WILLIAM

Joint Committee—Water.

ANGELL, JOHN W.

Joint Committees—Accounts, City Debt, Finance, Printing.

Joint Special—Licenses and Commissions, Annexation of Portions of Johnston and other towns.

ARNOLD, A. HERBERT

Joint Committees—North Burial Ground, Railroads.

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Councilmen. Committees.

BLAKELY, WILLIAM

Joint Committees—Accounts, City Engineer's Department, City Property, Finance, Sewers.

Joint Special—Manufacturers' Waste, Train Sheds, New and Old Passenger Stations and Exchange Place.

BULLOCK, SAM H.

Joint Committee—City Debt.

Joint Special—Pending Suits, Widening of East Avenue.

BURDICK, JAMES

Joint Committees—Relief Disabled Firemen and Policemen, Fire Department, Printing.

COOKE, STEPHEN A.

Joint Committee—Ordinances.

Joint Special—Pending Suits, Train Sheds, New and Old Passenger Stations and Exchange Place.

DARLING, JOHN O.

Joint Committee—Highways.

Joint Special—Mayor's Portrait.

DAVIS, LEWIS E.

Joint Committees—City Engineer's Department, Highways, Lamps.

DWYER, TIMOTHY F.

Joint Special—

FARNSWORTH, JOHN P.

Joint Committee—Sewers.

Joint Special—Mayor's Portrait.

FLETCHER, HENRY

Joint Committee—Police.

GARDINER, MARINUS W.

Joint Committees—Education, Railroads.

GRIMWOOD, HENRY A.

Joint Committees—North Burial Ground, Water.

GRINNELL, JOSEPH D.

Joint Committees—City Engineer's Department, Harbor.

Joint Special—Mayor's Portrait.

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Councilmen. Committees.

HALL, JEREMIAH H.

Joint Committee—Education.

Joint Special—Annexation of Portions of Johnston and other Towns.

HINCKLEY, FRANK L.

Joint Committee—Harbor.

JONES, AUGUSTINE

Joint Committees—Education, Parks.

Joint Special—To Confer with Arbitrators in re. Union Railroad Company Relative to Special Tax upon Gross Earnings, Annexation of portions of Johnston and other Towns.

KAVANAGH, LUKE

Joint Committees—Park, Police.

Joint Special—City Work.

KELLY, JAMES H.

Joint Committees—Claims, Police.

LEONARD, THOMAS H.

Joint Committees—Highways, Lamps.

Joint Special—Licenses and Commissions.

MINER, FRANCIS W., JR.

Joint Committees—Fire Department, Ordinances.

Joint Special—City Work.

MOLLOY, TIMOTHY E.

Joint Committees—City Property, North Burial Ground.

Joint Special—Licenses and Commissions.

MOORE, J. WILLIAM

Joint Committees—Finance, Railroads.

Joint Special—To Confer with Arbitrators in re. Union Railroad Company Relative to Special Tax upon Gross Earnings.

MORGAN, WILLIAM H.

Joint Committees—Accounts, Police, Printing.

O'CONNELL, DANIEL J.

Joint Committees—Parks, Sewers.

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Councilmen. Committees.

OTIS, WILLIAM N.
Joint Committee—Water.
Joint Special—Annexation of Portions of Johnston and other Towns.

PARSONS, T. RICHMOND
Joint Committee—Fire Department.

PERKINS, BURMAH E.
Joint Committees—City Property, Fire Department.

PETERSON, GEORGE P.
Joint Committee—Sewers.

PRESBREY, ALLEN A.
Joint Committees—Accounts, Claims.
Joint Special—Pending Suits, Licenses and Commissions.

SAWIN, EUGENE M.
Joint Committee—Parks.

SHEAHAN, DENNIS H.
Joint Committees—Lamps, Ordinances.
Joint Special—Mayor's Portrait, City Work.

SISSON, CHARLES
Joint Committees—Claims, Harbor.
Joint Special—Widening of East Avenue.

SPINK, BENJAMIN W.
Joint Committees—Finance, Railroads.

SWARTS, GARDNER T.
Joint Committees—Education, North Burial Ground.

TRASK, JAMES K.
Joint Committees—Accounts, City Property, Claims, Printing. Water.
Joint Special—Pending Suits.

WEST, THOMAS F.
Joint Committees—Highways, Ordinances.

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CITY OFFICERS

ELECTED BY THE PEOPLE.

1898.

MAYOR.

WILLIAM C. BAKER.

CITY TREASURER.

DANIEL L. D. GRANGER.

HARBOR MASTER.

JAMES T. P. BUCKLIN.

OVERRSEER OF THE POOR.

MATTHEW J. CUMMINGS.

Office, Charity Building, Fountain street.

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CITY OFFICERS

ELECTED BY THE CITY COUNCIL IN CONVENTION.

1898.

[The term of office is for one year ensuing the first Monday in January, 1898, unless otherwise specified.]

CITY CLERK.

William E. Clarke.

CHIEF OF POLICE.

[For three years from first Monday in January, 1896.]

Reuben R. Baker.

JUDGE OF THE MUNICIPAL COURT.

Joseph E. Spink.

CLERK OF THE MUNICIPAL COURT.

Edward Field.

RECORDER OF DEEDS.

Edward C. Joyce.

CITY AUDITOR.

Philip S. Chase.

SUPERINTENDENT OF PUBLIC BUILDINGS.

Albert T. Mansfield.

SUPERINTENDENT OF LIGHTS.

Oliver E. Greene.

CITY SERGEANT.

Edward S. Rhodes.

CITY MESSENGER.

Edward S. Rhodes.

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SUPERINTENDENT OF HEALTH.

[For three years from first Monday in January, 1896.]

Charles V. Chapin.

SEALER OF WEIGHTS AND MEASURES.

George R. Sherman.

INSPECTOR OF BUILDINGS.

[For two years from first Monday in January, 1898.]

Spencer B. Hopkins.

INSPECTOR OF PLUMBING.

[For two years from July 12, 1897.]

Reuben S. Bemis.

PRESIDENTS OF THE FIRE DEPARTMENT.

Ira Winsor, George A. Steere,
John W. Tillinghast.

COMMISSIONERS OF THE NORTH BURIAL GROUND.

William K. Reynolds. George L. Pierce,
A. Herbert Arnold.

CLERK OF THE MARKET.

Reuben R. Baker.

VIEWER OF FENCES.

Jonathan G. Parkhurst.

OVERSEERS OF THE HOSPITAL.

Mayor and Aldermen.

INSPECTOR OF KEROSENE.

William D. Child.

POUND KEEPER AT THE ASYLUM.

John T. Brown.

POUND KEEPER IN THE SEVENTH WARD.

Edwin B. Grinnell.

POUND KEEPER IN THE TENTH WARD.

Obadiah Brown.

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PORT WARDENS.

Prentiss O. Hooper, John H. Purkis,
Thomas Gardner.

PUBLIC ADMINISTRATOR.

Jonathan G. Parkhurst.

PACKERS OF FISH.

Martin Dewing, Warren N. Rogers,
George A. Midwood.

INSPECTOR OF POT AND PEARL ASHES.

George A. Midwood.

INSPECTOR OF SALERATUS AND BI-CARBONATE OF SODA.

Samuel J. Girard.

INSPECTOR OF CHAIN CABLES.

Lewis E. Davis.

INSPECTOR OF BEEF AND PORK.

Samuel Whiteley.

SEALER OF LEATHER.

Lewis W. Anthony.

VIEWER OF HOOPS.

Gustavus T. Gray.

SURVEYORS AND CORDERS OF WOOD.

Elam H. Gates, William A. H. Grant,
Christopher L. Holden.

SURVEYORS AND MEASURERS OF STONE.

George W. Cady, Clifton A. Hall,
James P. Hogan, James Warren, Jr.

INSPECTORS AND MEASURERS OF CARPENTERS' MASONS' AND PAINTERS' WORK.

Clinton A. Hall, Charles H. Swan,
Charles E. Paine, H. Frank Read.

MEASURERS OF GRAIN, SALT AND SEA COAL.

George H. Heathcote, Myron H. Fuller.

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WEIGHER FOR THE PLATFORM SCALES AT THE HAYMARKET.

Charles D. Cobb.

WEIGHERS OF COTTON.

Frank E. Chaffee,
Charles D. Cobb,
Charles H. Cowell,
S. James Foster, Jr.,
Jacob Morgan, Jr.,
W. J. O'Brien,
Charles F. Pierce,
George W. Ray,
Joseph F. Schellinger.

GAUGER.

James Moran.

DEPUTY GAUGER.

[Appointed by the Gauger, with the approval of the City Council.]

John F. O'Brien.

JUSTICES OF THE POLICE COURT.

[Elected by concurrent vote.]

Joseph S. G. Cobb,
Richard E. Lyman.

CITY SOLICITOR.

[Elected by concurrent vote for three years from May, 1897.]

Francis Colwell.

APPRAISERS OF DAMAGE UNDER THE DOG LAW.

[Elected April, 1896. See Chapter 111, General Laws.]

Clifford S. Tower,
John Heathcote,
Jonathan G. Parkhurst.

ASSESSORS OF TAXES.

[Elected first Monday in February.]

Walter W. Burnham.....to February, 1901.
Elisha H. Rhodes.....to February, 1900.
Arthur H, Armington.....to February, 1899.

SURVEYOR OF LUMBER.

[Elected in February, 1898.]

Clarence H. Carpenter.

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DEPUTY SURVEYORS OF LUMBER.

[Appointed by Surveyor, with approval of the City Council.]

Frank B. Chedell,
Charles A. Manchester,
Joseph H. White,
William E. Lawton,
Roscoe L. Phillips,
L. O. Roberts.

GAME WARDENS.

[Appointed April, 1898, under Chapter 112 of the General Laws.

Thomas W. Penny,
Marcus M. Inman,
Franklin B. Ham,
Henry T. Root.

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COMMISSIONERS.

ELECTED BY THE CITY COUNCIL.

COMMISSIONERS OF SINKING FUNDS.

William C. Baker, Mayor, *ex-officio*.
Daniel L. D. Granger, City Treasurer, *ex-officio*.
Philip S. Chase, City Auditor, *ex-officio*.
John W. Angell, Chairman Finance Committee, *ex-officio*.

[Elected by concurrent vote.]

John G. Massie.....to January, 1901.
Henry R. Barker.....to January, 1900.
William S. Hayward.....to January, 1899.

PARK COMMISSIONERS.

[Elected by concurrent vote in May.]

Edwin D. McGuinness.....until first Monday in May, 1900.
Richard H. Deming.....until first Monday in May, 1899.
Frank F. Olney.....until first Monday in May, 1898.

LICENSE COMMISSIONERS.

[Elected in Convention in July, 1893.]

John L. Sprague.....until first Monday in August, 1898.
George H. Burnham.....until first Monday in August, 1898.
Charles Edward Paine.....until first Monday in August, 1898.
John M. Studley.....until first Monday in August, 1898.
Thomas Nixon.....until first Monday in August, 1898.

FIRE COMMISSIONERS.

[Elected in Convention on First Monday in January, to date from First Monday in February.]

Stillman White.....until first Monday in February, 1901.
William H. Luther.....until first Monday in February, 1900.
Dexter Gorton.....until first Monday in February, 1899.

APPOINTED BY THE MAYOR.

COMMISSIONER OF PUBLIC WORKS.

[Appointed by the Mayor under Chapter 869 of the Public Laws.]

Robert E. Smith.....until first Monday in March, 1900.

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CITY OFFICERS.

ELECTED BY THE BOARD OF ALDERMEN.

1898.

PRESIDENT OF THE BOARD OF ALDERMEN.
IRA WINSOR.

CITY REGISTRAR OF BIRTHS, MARRIAGES, AND DEATHS.
Charles V. Chapin.

INSPECTOR OF PROVISIONS.
Mark A. Golrick.

INSPECTOR OF STEAM BOILERS.
John T. Doyle.

SUPERINTENDENT OF BURIAL OF SOLDIERS AND SAILORS.
William Frankland.

TRUANT OFFICER.
Gilbert E. Whittemore.

QUARANTINE SENTINEL.
John S. Adamson.

AUCTIONEERS.

Daniel Ahearn,
George H. Burnham,
Stephen F. Chase,
Henry W. Cooke,
Henry Cram,
Walter F. Crowell,
Eugene A. Dean,
Herbert E. Dodge,
Charles L. Ellis,
Henry F. Ferrin,
David Frank,
James F. Freeman,
Joseph D. Furlong,
Herbert D. Goff,
Isaac L. Goff.
Henry A. Greene,
Patrick Greene,
Frank B. Hazard,
William H. Herrick,
James H. Hurley,
Arnold A. Manchester,
Edward J. McCabe,
Bernard McGuinness,
Aaron Milkman,
Seth A. Pierce,
B. Thomas Potter,
Walter L. Preston,
George L. Robinson,
Francis J. Sheldon,
Robert L. Walker.

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UNDERTAKERS.

A. Herbert Arnold,
Joseph W. Baker,
Charles E. Barber,
Charles A. Boyce,
Frank S. Boyce,
Henry J. Boyce,
John T. Brown,
J. Will Carpenter,
Thomas H. Carpenter,
Robert F. Carroll,
Clarence O. Chase,
William Conneeley,
John J. Coutanche,
Aaron S. Estey,
Domenico Ferrara,
Tomaso Gattone,
Daniel Gorman,
George W. Hopkins,
John S. Hughes,
Patrick King,
Ellmer F. Knowles,
Horace B. Knowles,
John E. Lynch,
Morris Lynch,
Antonio A. Mariani,
Thomas McCabe,
Dennis F. McCarthy,
Eugene J. McCarthy,
Thomas McMurrough,
Alvord O. Miles,
Thomas F. Monahan,
Thomas Quinn,
Henry A. Remington,
Robert B. Risk,
Roswell Roles,
Clinton D. Sellew,
Louis Sugarman,
John F. Tanner,
Thomas H. Tanner,
Thomas Toye,
John H. Walsh,
John Whearty,
William E. Whiting.

WEIGHERS OF COAL AND OTHER MERCHANDISE.

Richard Atwell,
Warren S. Ballou,
Anthony Chase,
Albert O. Coates,
Charles D. Cobb,
George M. Delaney,
Marinus W. Gardiner,
Frank Gladding,
William A. H. Grant,
Elmer E. Hubbard,
William N. Johnson,
Joseph W. Marksby,
Thomas McNiff,
Charles F. Pierce,
A. W. Purvere,
George A. Whipple.

CONSTABLES.

[With power to serve civil process.]

Robert W. Blunt,
Frederick C. Hull,
Bernard I. McElroy,
Andrew McKenzie,
Frank A. Potter,
Albert C. Rice,
Thomas J. Ryan,
Lyman Upham,
Thomas D. White.

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POLICE CONSTABLES.

[Without power to serve civil process.]

Philip H. Adamson,
George E. Andrews,
Charles C. Armstrong,
William W. Arnold,
Charles E. Austin,
Thomas S. Austin,
Henry T. Ayers,
Harris W. Brown,
Frank E. Chesbrough,
Jacob Cohen,
Alexander M. Craig,
Edward H. Dorsey,
Terrence W. Ford,
James J. Gillese,
James H. Higgins,
John L. Hilliard,
Walter B. Horr,
Gilbert S. Inman,
John Kulz,
Walter J. Lewis,
Henry A. Maguire,
Michael J. Maher,
Hugh Maines,
Bradford Mason,
Michael J. McCormick,
Peter H. McCready,
John F. McElroy,
Patrick V. McElroy,
George H. Merrill,
Demus E. Morris,
Orin S. Mowry,
Michael Mulgrew,
John K. Northup,
Calvin L. Nye,
Ezra K. Perkins,
Richard T. Poinier,
George J. Quinn,
John A. Reed,
George H. Simms,
Richard E. Smith,
Otis H. Squires,
Walter G. Stackpole,
Samuel E. Stone,
Jacob Swarts,
Frank D. Thurber,
Cornelus A. White,
Howard D. Wilcox,
Walter W. Williams,
George A. Youlden,

RAILROAD POLICE OFFICER.

Williard W. Jackson.

INSPECTOR OF MILK.

[Elected August 1897.]

Charles A. Potter.

POLICE SURGEON.

[Elected April, 1897.]

William H. Palmer.

CORONER.

[Elected until first Monday in July, 1899.]

Eugene H. Lincoln.

FIRE MARSHAL.

[Elected March 19, 1888.]

Ira Winsor.

SUPERINTENDENT AND MATRON OF THE DEXTER ASYLUM.

[Elected until June, 1898.]

John T. Brown, Mary A. Brown.

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WEIGHERS OF NEAT CATTLE.

[Appointed April, 1897.]

Andrew Comstock, Henry M. Kimball,
Joseph L. Holmes, George A. Rice.

SPECIAL CONSTABLES UNDER THE DOG LAW.

[Elected April, 1897.]

J. Crawford Potter, James B. Hathaway.

SPECIAL CONSTABLES UNDER THE TRAMP ACT.

[Appointed May 20, 1880.]

J. Crawford Potter, James B. Hathaway.

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REPRESENTATIVES TO THE GENERAL ASSEMBLY.

[Elected by the people April, 1897.]

SENATOR.

Robert H. I. Goddard.

REPRESENTATIVES.

1. William C. Baker.
2. Rathbone Gardner.
3. Albert Roberts.
4. Henry G. H. Rawson.
5. Charles F. Irons.
6. John L. Remlinger.
7. George R. McAuslan.
8. C. Dean Kimball.
9. J. Edward Studley.
10. Alva Carpenter.
11. Samuel Ames.
12. Cyrus M. Van Slyck.

WARD OFFICERS.

[Elected by the people November, 1897.]

WARD I.

First District.

Warden, Henry H. Waters. Clerk, John J. Finan.

Second District.

Warden, Peter H. Brown. Clerk, William Frankland.

WARD II.

First District.

Warden, William H. Gorham. Clerk, James R. Snow.

Second District.

Warden, Clarence C. Greene. Clerk, Edwin S. Darling.

WARD III.

First District.

Warden, William B. McCauley, Clerk, James W. Lynch.

Second District.

Warden, John W. Flanagan. Clerk, Thomas J. Halliday.

Third District.

Warden, John J. Callan. Clerk, Joseph P. O'Connell.

WARD IV.

First District.

Warden, Munson H. Najac. Clerk, Charles D. Cobb.

Second District.

Warden, John W. Courtney. Clerk, William H. T. Mosley.

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Ward V.

First District.

Warden, William N. Talpe. Clerk, Albert C. Winsor.

Second District.

Warden, James A. Davis. Clerk, Samuel L. Carpenter.

Ward VI.

First District.

Warden, Samuel Grafton. Clerk, Hugh V. Mulvey.

Second District.

Warden, Charles H. Such. Clerk, Rufus G. Sprague.

Ward VII.

First District.

Warden, Thomas C. Robinson. Clerk, Charles E. Brown.

Second District.

Warden, John H. Latham. Clerk, Martin W. Kern.

Ward VIII.

First District.

Warden, Walter L. Fanning. Clerk, John F. Coffey.

Second District.

Warden, Charles H. Morse. Clerk, David H. Whittemore.

Ward IX.

First District.

Warden, Don Carlos H. Tinkham. Clerk, Albert H. Taylor.

Second District.

Warden, Charles E. Austin. Clerk, Walter E. Munroe.

Ward X.

First District.

Warden, Daniel W. Heffernan. Clerk, John F. Curran.

Second District.

Warden, John F. Tracy. Clerk, Daniel Kehoe.

Third District.

Warden, George L. Brown. Clerk, Thomas H. Dunn.

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EXECUTIVE DEPARTMENT.

MAYOR.

WILLIAM C. BAKER.

Residence, No. 131 Hope street.

MAYOR'S CLERK.

DANIEL F. GEORGE.

MESSENGER.

GEORGE E. YOUNG.

OFFICE HOURS.

9.30 o'clock A. M. to 4.30 o'clock P. M.

From 11 o'clock A. M. to 1 o'clock P. M. the Mayor will give his attention to the transaction of general official business.

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CITY CLERK'S DEPARTMENT.

CITY CLERK.

WILLIAM E. CLARKE.

Residence, 118 Williams street.

DEPUTY CITY CLERK.

AURION V. CHEVERS.

ASSISTANTS.

AUGUSTUS J. WINSHIP, JOSEPH W. BRIGGS,
ANNIE E. EDWARDS.

RECORDS.

The City Clerk is the keeper of the city seal and seal of the Board of Aldermen; also of the files, papers, and records of the City Council, Board of Aldermen, and Board of Health.

COMMISSIONS.

Commissions are issued by the City Clerk to all City Officers elected by the people, City Council, and Board of Aldermen.

Section 8, of Chapter 34 of the Revised Ordinances of 1887, Provides as follows:

"Every person except port wardens so elected to office shall within thirty days after the date of his commission, duly engage himself to the faithful performance of the duties of his office before the City Clerk, who shall keep a record thereof. Port Wardens, as required by Statute, shall engage themselves before the Mayor."

LICENSES.

Licenses for dances and public exhibitions; to keep bagatelle, billiard, pool, and scippio tables, and bowling alleys; to keep pawnbrokers' shops; to keep intelligence offices; to sell fireworks; to open and keep stores for the purchase and sale of junk and second-hand articles, for the sale of gunpowder, and for taverns, victualling and oyster houses, and lunch carts; itinerant venders, to keep swine and for the removal of night soil, are issued by the City Clerk.

JOINT COMMITTEE ON PRINTING.

JAMES K. TRASK, *Chairman.*

JOHN W. ANGELL, JAMES BURDICK,
WILLIAM H. MORGAN, JAMES H. McGANN,
WILLIAM E. CLARKE, *Secretary.*

COMMITTEE ON SHOWS.

JAMES H. McGANN, *Chairman.*

IRA WINSOR, WILLIAM K. REYNOLDS.

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FINANCIAL DEPARTMENT.

[See Revised City Ordinances, Chapter 14.]

CITY TREASURER.

DANIEL L. D. GRANGER.

Residence, No. 95 Waterman street.

DEPUTY CITY TREASURER.

WALTER L. CLARKE.

ASSISTANTS.

EARL P. MASON,
THOMAS C. GUSHEE,
JOHN A. TILLOTSON,
WILLIAM H. WORRALL,
BENJAMIN B. ADAMS, JR.
JOHN P. WALSH,
JANE C. McCORMACK,
SUSIE E. PARSONS,
HENRY BRICKLEY.

PAYMASTER.

DANIEL F. O'REILLY.

CITY AUDITOR.

PHILIP S. CHASE.

JOINT COMMITTEE ON FINANCE.

JOHN W. ANGELL, *Chairman.*

WILLIAM BLAKELY,
J. WILLIAM MOORE,
BENJAMIN W. SPINK,
HENRY B. WINSHIP.

JOINT COMMITTEE ON CITY DEBT.

WILLIAM C. BAKER, *Mayor and Chairman.*

IRA WINSOR,
JOSEPH H. KENDRICK,
JOHN W. ANGELL,
SAM H. BULLOCK.

COMMISSIONERS OF SINKING FUNDS.

[See Revised City Ordinances, Chapter 52.]

WILLIAM C. BAKER, *Mayor and Chairman.*

WILLIAM S. HAYWARD,
JOHN G. MASSIE,
HENRY R. BARKER,
DANIEL L. D. GRANGER,
JOHN W. ANGELL,
PHILIP S. CHASE, *Secretary.*

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AUDITOR'S DEPARTMENT.

[See Revised City Ordinances, Chapter 14.]

CITY AUDITOR.

PHILIP S. CHASE.

Residence, No. 145 Congress avenue.

ASSISTANTS.

LOUIE R. MAGOON, JOSEPH BUCKLIN,
HERBERT J. BRIGGS.

JOINT COMMITTEE ON ACCOUNTS.

JOHN W. ANGELL, *Chairman*,

WILLIAM BLAKELY, ALLEN A. PRESBEY,
JAMES K. TRASK, WILLIAM K. REYNOLDS,
WILLIAM H. MORGAN, ABRAHAM A. GRAY.

All bills against the City of Providence must be certified by the several officers or committees contracting the same, and deposited with the City Auditor, on or before the *tenth* of each month.

As the committee on accounts will meet but once a month during the year 1898, it will be necessary for all departments to comply with the foregoing instructions, to avoid delay in the settlement of bills.

All bills or accounts against the City of Providence, that have been allowed by the committee on accounts, will be settled at the office of the City Auditor, on the *twentieth* of each month, for all accounts contracted during the previous month. When the twentieth comes on Sunday, payments will be made on the twenty-first of the month.

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CLERK OF THE COMMON COUNCIL AND CLERK OF COMMITTEES DEPARTMENT.

Office, rooms on the second floor adjoining the Common Council Chamber.
[See City Ordinances, Chapters 222 and 608.]

CLERK.

DANIEL F. HAYDEN.

Residence, No. 206 Doyle avenue

ASSISTANT.

JOHN A. BROOKS.

MESSENGER DEPARTMENT.

CITY MESSENGER.

EDWARD S. RHODES.

Residence, No. 36 Harvard avenue.

ASSISTANTS.

T. FRED CHASE, IRA S. STEELE, JR.

POLICE OFFICERS.

JOHN W. POINIER, JAMES L. SHERMAN,

CITY HALL.

[See City Ordinances, Chapter 500.]

The City Messenger has the care and superintendence of the City Hall. The building is open at 9 o'clock A. M. every day except Sundays and legal holidays, and closed at 5 o'clock P. M. on all week days except Saturdays, when it is closed at 3 o'clock P. M., and in the months of July and August at 12 o'clock M.

Janitor,	ABRAHAM L. RIDER.
Engineer,	GEORGE W. BRAYMON.
Night Watchman,	RICHARD POWERS.
Elevator Conductor,	HOWARD TRENN.

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LAND RECORDS.

RECORDER OF DEEDS.

EDWARD C. JOYCE.

Residence, No. 32 Elmgrove avenue.

ASSISTANTS.

ANNIE Y. BILLINGS,
IDA W. BARNES,
EVELYN H. CURTIS,
BESSIE E. BATTEY,
ALICE E. BARRUS,
CARRIE C. BATTEY.

ASSESSMENT OF TAXES.

BOARD OF ASSESSORS.

ELISHA H. RHODES, *Chairman.*

ARTHUR H. ARMINGTON, WALTER W. BURNHAM.

ASSISTANTS.

HENRY L. HOLMES,
CHARLES B. TOYE,
LUNELLE L. ALDRICH,
H. EUGENE CLARKE,
NATHANIEL F. PATTEN.

LAW DEPARTMENT.

[See City Ordinances, Chapters 34, 385, and 477.]

CITY SOLICITOR.

FRANCIS COLWELL.

Office hours from 11 A. M. to 1 o'clock P. M.

ASSISTANTS.

ALBERT A. BAKER,
WILLIAM B. GREENOUGH.

JOINT COMMITTEE ON ORDINANCES.

FRANCIS W. MINER, JR., *Chairman.*

STEPHEN A. COOKE,
DENNIS H. SHEAHAN,
THOMAS F. WEST,
WALTER B. VINCENT.

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CITY COURTS.

MUNICIPAL COURT.

[See Revised City Ordinances, page 9, and Chapters 33 and 586.]

JUDGE.

JOSEPH E. SPINK.

CLERK.

EDWARD FIELD.

ASSISTANTS.

ADA G. JOHNSON, FLORENCE S. CLAPP,
MABEL E. TROW.

CITY SERGEANT.

EDWARD S. RHODES.

The Municipal Court is held in the City Hall on Tuesday of each week at 9 o'clock A. M., for transacting probate business only, except in the months of July and August, when said Court is held on the second and fourth Tuesdays in said months.

POLICE COURT.

Held daily at 8 o'clock A. M., at the Central Police Station.

JUSTICES.

JOSEPH S. G. COBB, RICHARD E. LYMAN.

CITY SOLICITOR.

FRANCIS COLWELL.

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HEALTH DEPARTMENT.

SUPERINTENDENT OF HEALTH.

CHARLES V. CHAPIN, M. D.

MEDICAL INSPECTOR.

EUGENE P. KING, M. D.

CLERK.

GRACE I. WOODS.

INSPECTOR OF NUISANCES.

WALTER J. LEWIS.

INSPECTOR OF PROVISIONS.

MARK A. GOLRICK.

CHIEF OF VACCINATION STAFF.

CHARLES H. LEONARD, M. D.

AMBULANCE DRIVER.

EDWARD P. TABOR.

BOARD OF HEALTH.

WILLIAM C. BAKER, *Mayor.*

WALTER B. VINCENT,
ABRAHAM A. GRAY,
DENNIS F. McCARTHY,
HENRY B. WINSHIP,
WILLIAM K. REYNOLDS,
JAMES F. FREEMAN,
HORACE REMINGTON,
EDWIN LOWE,
IRA WINSOR,
JAMES H. McGANN.

WILLIAM E. CLARKE, *Clerk,*

EDWARD S. RHODES, *Sergeant.*

COMMITTEE ON HEALTH DEPARTMENT.

HORACE REMINGTON, *Chairman.*

JAMES H. McGANN,
ABRAHAM A. GRAY.

HEALTH OFFICER AT QUARANTINE.

CHARLES V. CHAPIN, M. D.

QUARANTINE SENTINEL.

JOHN S. ADAMSON.

VACCINATION.

Vaccination is free to all residents of the city, at the Ward Room on Fountain street, every Saturday, from 2 to 3 o'clock P. M.

NUISANCES.

Complaints relating to the removal of swill, house offal and night soil, and nuisances of every description, will be received and attended to at the office of the Superintendent of Health.

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RECORDS OF BIRTHS, MARRIAGES AND DEATHS.

CITY REGISTRAR.

CHARLES V. CHAPIN, M. D.

CLERKS.

M. JOSEPHINE PECKHAM, CLARA V. MASON,

MARRIAGES.

Marriage certificates are issued by the City Registrar under Chapter 191 of the General Laws.

BOARD OF CANVASSERS AND REGISTRATION.

[See Chapter 8 of the General Laws, and Chapter 363 Public Laws.]

JASON P. STONE, *Chairman.*

CHARLES E. SMITH, *Clerk.* JOHN T. BLODGETT.

ASSISTANTS.

ARTHUR P. MOWRY, TELESFOR STAHL.

REGISTRY OF VOTERS.

All persons who may be qualified to vote upon being registered are required to register their names *personally* on or before the last day in each year, in the "Registry Book" in the office of the Board of Canvassers and Registration.

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POOR DEPARTMENT.

[See Revised City Ordinances, Chapter 41.]

OVERSEER OF THE POOR.

MATTHEW J. CUMMINGS.

Office, Charity Building, Fountain street.

CLERKS.

NORA F. McCORMICK, MARY A. BLESSING,
IRENE G. G. PIDGE.

MATRON OF CHARITY BUILDING.

LIZZIE M. CUMMINGS.

SUPERINTENDENT OF WOOD YARD.

MICHAEL R. CARROLL.

COMMITTEE ON POOR DEPARTMENT.

HENRY B. WINSHIP, *Chairman.*
JAMES F. FREEMAN, IRA WINSOR.

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DEXTER ASYLUM.

[Under the care of the Mayor and Board of Aldermen.]

SUPERINTENDENT.

JOHN T. BROWN.

MATRON.

MARY A. BROWN.

ATTENDING PHYSICIANS.

GEORGE L. COLLINS, CLARENCE M. GODDING.

CONSULTING PHYSICIANS.

JAMES W. C. ELY, GEORGE D. HERSEY.

CHAPLAIN.

ELISHA W. APPLETON.

COMMISSIONERS OF THE DEXTER DONATION.

[Elected, with the exception of the Mayor, in town meeting, December 19, 1896.]

WILLIAM C. BAKER, *Mayor*, WILLIAM S. HAYWARD,
BENJAMIN B. KNIGHT, GEORGE E. MARTIN,
GEORGE W. R. MATTESON, ROYAL C. TAFT.
WILLIAM E. CLARKE, *Secretary, ex-officio.*
PHILIP S. CHASE, *Auditor, ex-officio.*

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PUBLIC BUILDINGS.

[See Revised City Ordinances, Chapter 43.]

SUPERINTENDENT OF PUBLIC BUILDINGS.

ALBERT T. MANSFIELD.

Hours of Superintendent, from 1 to 3 P. M.

CLERK.

LOUIS E. CADY.

JOINT COMMITTEE ON CITY PROPERTY.

BURMAH E PERKINS, *Chairman.*

JAMES K. TRASK, CHARLES SISSON,
WILLIAM BLAKELY, DENNIS F. McCARTHY.

NORTH BURIAL GROUND.

[See Revised City Ordinances, Chapter 7.]

SUPERINTENDENT OF THE NORTH BURIAL GROUND.

JAMES WARREN, JR.

CLERK.

JOHN A. THOMPSON.

COMMISSIONERS OF THE NORTH BURIAL GROUND.

WILLIAM K. REYNOLDS, *Chairman and Secretary.*

GEORGE L. PIERCE, A. HERBERT ARNOLD,
HENRY A. GRIMWOOD, *ex-officio.*

JOINT COMMITTEE ON THE NORTH BURIAL GROUND.

HENRY A. GRIMWOOD, *Chairman.*

GARDNER T. SWARTS, TIMOTHY E. MOLLOY,
A. HERBERT ARNOLD, WILLIAM K. REYNOLDS.

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DEPARTMENT OF PUBLIC WORKS.

[See Chapters 315, 444, 529, 530, 677, and 869 of the Public Laws, and Chapter 4 of the Revised Ordinances, and Chapter 130 of the Supplement.]

COMMISSIONER OF PUBLIC WORKS.

ROBERT E. SMITH.

SECRETARY.

WALTER F. SLADE.

CHIEF CLERK.

LEONARD N. AUSTIN.

CLERKS.

JESSE W. COLEMAN,
ALFRED H. TABER,
ERNEST A. CHASE,
ALMON C. BURNHAM,
CHRISTOPHER B. PEARSE,
CHARLES F. WINSOR,
WM. E. M. LITTLE,
ERNEST R. SMITH.

BOOKKEEPER.

HERBERT E. WOOD.

INSPECTOR OF WATER FIXTURES.

FRED A. ARNOLD,
ALBERT C. WINSOR,
GILBERT WILSON,
WILLIAM W. DOW,
DWIGHT D. STRICKLAND,
HARRY O. WHEELER.

IN CHARGE OF SERVICE STOPS.

WILLIAM F. JANES.

SUPERINTENDENT OF DISTRIBUTION (WATER).

WILLIAM H. PATTERSON.

INSPECTOR OF METERS.

JAMES H. HIGGINS.

SUPERINTENDENT OF PETTACONSET AND SOCKANOSSET.

GEORGE B. ARNOLD.

KEEPER OF SOCKANOSSET RESERVOIR.

HERBERT U. DURFEE.

KEEPER OF HOPE RESERVOIR.

EBEN BURLINGAME.

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KEEPER OF FRUIT HILL RESERVOIR.

GEORGE M. HALL.

PUMPING ENGINEERS, PETTACONSET STATION.

WILLIAM HARRY, THOMAS H. WEBB.

PUMPING ENGINEER, HOPE STATION.

JOSEPH F. PLANT.

SUPERINTENDENT OF HIGHWAYS.

J. HENRY FIELD.

SUPERINTENDENT OF CLEANING AND REPAIRING SEWERS.

ALLEN ALDRICH.

INSPECTORS OF PRIVATE DRAINS.

R. B. S. HART, CHARLES H. PIERCE.

PUMPING ENGINEERS, ERNEST STREET STATION.

PRELOTT W. ROUNDS, JUDSON DAVIS.

JOINT COMMITTEE ON WATER.

JAMES K. TRASK, *Chairman.*

WILLIAM ANDREWS, WILLIAM N. OTIS,
HENRY A. GRIMWOOD, EDWIN LOWE.

JOINT COMMITTEE ON SEWERS.

WILLIAM BLAKELY, *Chairman.*

DANIEL J. O'CONNELL, JOHN P. FARNSWORTH,
GEORGE P. PETERSON, HORACE REMINGTON.

JOINT COMMITTEE ON HIGHWAYS.

LEWIS E. DAVIS, *Chairman,*

THOMAS H. LEONARD, THOMAS F. WEST,
JOHN O. DARLING, JAMES H. McGANN.

COMMITTEE ON STREETS.

JAMES H. McGANN, *Chairman.*

HENRY B. WINSHIP, EDWIN LOWE.

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SCHEDULE OF WATER RATES

FOR THE CITY OF PROVIDENCE.

The following rates will be charged, until further notice, for the use of Pawtuxet river water:

Dwelling houses occupied by one family, one faucet, - - - $6 00

Each additional faucet, not hereinafter specially rated, - - - 2 00

One bath tub, - - - - - - 5 00

Each additional bath tub, - - 3 00

One water closet of approved kind, 5 00

Each additional water closet, - - 3 00

One self-closing urinal (none others allowed), - - - - - - - 3 00

Each additional urinal, - - - 2 00

One set-basin, - - - - - - 2 00

Each additional set-basin, - - 1 00

One set of set wash-tubs, not exceeding three tubs, - - - 3 00

Each additional set wash-tub, - - 1 00

Provided that no private dwelling be charged over, - - - - 40 00

Dwelling houses occupied by more than one family, each family having separate fixtures, will be charged the same as if living in a separate house; if using the same fixtures, each additional family, - - - - - - - 5 00

Stores, warehouses, offices, and shops requiring no more than an ordinary supply of water, for the same fixtures the same price as for dwelling houses. If any tenant having no fixtures has access to any fixture, there will be charged for each such tenant, - 2 00

Hotel, boarding houses, and lodging houses, in addition to the rates for families, there will be charged for each bed for boarders and lodgers, - - - - - - 1 00

Refectories, confectioners, eating-houses, fish-markets, bar-rooms, refreshment and oyster saloons, according to quantity of water used, - - - - $10 00 to $50 00

Meat markets and provision shops according to quantity of water used, - - - - - $8 00 to $30 00

Photographers, according to quantity of water used, - $15 00 to $40 00

Printing offices, according to number of presses used, not including supply for steam boiler, $8 00 to $40 00

Bakeries, according to the average daily use of flour per barrel, not including supply for steam boiler, 3 00

Provided, however, that no bakery shall be charged less than, - - 8 00

Greenhouses and graperies, according to quantity of water used, - - - - - $8 00 to $30 00

Fountains, ½-inch jet, average use six hours per day for six months in the year, - - - - - - 10 00

¼-inch jet, average use, etc., - 40 00

Other sizes in proportion.

Garden hydrants and street and window washers. No hydrants allowed unless at least $6.00 is paid for water for other purposes.

For hose with nozzle not exceeding 3-16 inch diameter, to be used not exceeding one hour per day on the premises of the water taken only, including *one-half* of width of street - - - - - - - 5 00

For use on neighbor's premises, including his part of street - - 5 00

No larger nozzel will be allowed except by special permit, for which a proportionate charge will be made.

Special permits will also be given for use for longer time, on payment for such time.

The use of hose will not be allowed without charge therefor.

The charge for use on neighbor's premises does not include the right to supply water for any other purpose than sprinkling, or for washing windows.

Hydrants used as fountains will be rated as such.

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Hydrants outside the meters are only allowed to be used by holding the hose in hand.

Stables.—Private stables,	$4 00
Each horse more than one,	2 00
Livery stables, each single stall,	1 50
Work horses, including car horses, each,	1 50
Provided that no stable shall be charged less than,	4 00

The above charges include water for washing carriages, but in no case shall hose be used for washing either horses or carriages without an extra charge to be agreed upon.

Neat cattle, each head,	1 00
Swine, each,	25
City fire hydrants, each,	30 00

☞ THE ABOVE RATES ARE ALL ANNUAL. ☜

Sprinkling carts, two-horse cart, per week,	12 00
One-horse cart, per week,	6 00
Building purposes, each cask of lime or cement,	08
Water for filling cisterns or tanks,	5 00

For measured or estimated water:

For all water annually consumed through a single tap, up to $600.00 in value, per 100 gallons - - $ 02

For all water annually consumed through a single tap, exceeding $600.00 in value, for the excess, per 100 gallons - - - - - 01½

Provided, however, that in no case where a meter is used, shall the annual charge be less than $10.00, which minimum annual charge shall be payable in advance.

Hydraulic elevators, per 100 gallons, registered by counters, 1½ cents net.

When meters are used to register the water for elevators a discount of 20 per centum will be made from the above rate.

For purposes not named in the above schedule, and for peculiar circmstances special assessments or contracts will be made.

For permanently closing stops and supplying the premises through other stops, a charge of five dollars will be made for each stop permanently closed.

RULES AND REGULATIONS.

(Subject to additions and amendments.)

All applications for the use of water must be made at the office of the Commissioner of Public Works, in the form prescribed, stating fully and truly the various uses to which the water is to be applied.

The city will furnish service pipe connection from the main pipe to inside the curb line; and the Commissioner of Public Works will in each case determine the size of tap, stop and pipe of such connection.

All work inside the top (at the curbstone) must be done at the expense of the taker by a plumber licensed by the Commissioner of Public Works.

The Commissioner reserves the right to decline to connect with plumbing which has not been done by a plumber licensed by him, or which has not been examined and approved by such licensed plumber.

No street, sidewalk, or other public place shall be opened for any purpose, referring to the water works, without a special permit from the proper officer; and such permit will be granted only to a licensed plumber, on his written application therefor.

The strength of the pipes used, their protection against freezing, the kind of faucets and other fixtures, and the general arrangement of the work in reference to its security and safety, are to be subject to the approval of the proper officer.

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Persons taking water must keep their own water pipes, and all fixtures connected therewith, in good repair and protected from frost at their own expense. They must provide a stop and waste-cock, to be properly located inside the building, and have the pipes so arranged that the water can be drawn from them wherever and whenever there is danger of its freezing. Should there be no stop-cock on the premises, a charge of two dollars will be made for closing and opening, when necessary at the curb-stone.

No alterations in pipes or fixtures shall be made, and no additional fixtures put in, without notice to the commissioner, and a permit having been obtained therefor. The only exception to the above will be in cases where pipes have burst and damage to the premises is likely to result from any delay in making necessary repairs. In cases of this kind, a return must be made by the plumber making the repairs, as soon after the work is done as practicable.

No person shall be entitled to damages, nor to have any portion of a payment refunded, for any stoppage of supply occasioned by accident to any portion of the works : nor for stoppage for purposes of additions or repairs, nor for non-use occasioned by absence; and the Commissioner of Public Works shall have the right to shut off water to make repairs or additions of new work.

When water shall be supplied to more than one party through a single tap, the bill for the whole supply furnished through such tap will be made either to the owner of the estate, or to some one tenant who shall agree to be responsible therefor. In case of non-payment the water may be shut off, notwithstanding one or more parties may have paid the proportion due from him or them. Owners shall be so far responsible for tenants, that new tenants shall not be entitled to a supply until all arrearages on the premises are paid.

No hydrant, hose bib or hose attachment shall be placed in any yard or area of any premises so situated as to be accessible to persons living in or occupying neighboring premises, unless the owner of the premises first named becomes responsible for and pays the water rent for all persons using water therefrom.

In all occupied premises, every private fountain, water-closet, set-basin, sink or other fixture, whether used or not, will be deemed and held as used, and will be charged for so long as such fountain, water-closet, set-basin, sink or other fixture shall remain connected with the water-pipes.

No water taker will be allowed to supply water to parties not entitled to its use, except through a meter or by special permit from the Commissioner of Public Works; and if found doing so without a permit the supply will be stopped, and the water rent already paid forfeited.

Persons who have provided themselves with fixtures for protection against fire (no water charge is made for such) will not be allowed to use water through such fixtures for other purposes, except upon a written permit from the Commissioner of Public Works. Any person violating this provision will be liable to have the supply cut off.

There shall be no concealment of the purpose for which water is used.

There shall be no unnecessary waste of water. Any person violating this rule shall be liable to have his supply cut off, and the amount paid therefor forfeited.

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The Commissioner of Public Works, his agents and assistants, may enter any premises supplied with Pawtuxet water, at all reasonable hours of the day, to wit, between eight o'clock A. M. and six o'clock P. M., to examine the pipes and fixtures, the quantity of water used, and the manner of its use.

METERS.

When a consumer shall prefer to pay the cost of such a meter as shall be approved by the Commissioner of Public Works, together with the cost of putting in and of maintenance, rather than to pay schedule rates, or for the quantity estimated, a meter will be put in.

The Commissioner reserves the right to put in a meter at the cost of the city, in any case, and charge for measured water, instead of being governed by the foregoing schedule.

If a meter gets out of order and fails to register, the consumer will be charged at the average daily consumption, as shown by the meter when in order. Repairs of meters will be made by the Commissioner at the expense of the owners, whenever the Commissioner deems repairs necessary.

When water passes through a meter it may be used for any and all purposes. No service pipes, however, will be allowed to be laid across a street.

All water passing through a meter will be charged for, whether used or wasted.

All meters will be set by an employee of the Commissioner, and shall not be moved or disturbed without permission from the proper officer.

STREET SPRINKLERS AND STREET SPRINKLING.

No person or persons shall be permitted to take water from the fire hydrants or street sprinklers to sprinkle any of the streets or portions of the streets of this city, or for any other purpose, without having obtained a permit from the Commissioner of Public Works, which permit shall be good only for the time named therein.

The sprinkling of the streets shall be done in such manner as not to become injurious to the health of the public, or to cause the streets to become muddy in consequence of said sprinkling.

The orifices of the tube or sprinkler through which the water passes from the sprinkling cart or wagon to the street, must not exceed one-sixteenth of an inch in diameter, or sixty orifices to the running foot of tube or sprinkler.

All sprinkling carts shall be subject to inspection by an inspector authorized by the Commissioner.

In taking water for street sprinkling purposes, no leakage or waste of water, either from street sprinkler, hose, or sprinkling cart, will be tolerated; and all persons using the sprinklers shall leave them properly covered.

All instructions received from any authorized inspector, relative to the sprinkling of streets, shall be fully complied with.

Violations of rules relating to sprinkling streets shall be deemed sufficient reason for refusing further permits.

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PAYMENT OF BILLS.

Bills for annual rates will be payable annually, in advance, on the first day of January, at the office of the City Treasurer. (See City Ordinances, 1881, Chapter 160.)

Fractional parts of a year will be calculated to the first day of January next ensuing, and will be payable as soon as the water is let on.

Bills for measured and estimated water will be payable either monthly, quarterly, or annually, according to use.

If bills remain unpaid for ten days after due, the water may be shut off without further notice.

The supply of water is liable to be shut off for non-payment of bills or violation of rules; and when so shut off, the sum of two dollars and the bill, if any, shall be paid before letting it on. This liability shall include all bills for water, although previous bills for a less supply of water through the same stop may have been paid; also bills for repairs of meter.

No person shall open or interfere with the fire hydrants, hydrants for street sprinklers, valves, or other water works fixtures of the city, without proper authority.

PLUMBERS.

Any plumber wishing to do business in connection with the Providence water works is required to procure a license from the Commissioner of Public Works, and at the same time to execute a bond with one or more securities to be approved by said Commissioner, in the sum of three thousand dollars, conditioned that he shall indemnify and save harmless the City of Providence and said Commissioner from all suits and actions of every name or description, brought against the City of Providence or any officer of said city, for or on account of any injuries or damages received or sustained by any person by or from said licensed plumber, his servants or agents in doing said work, or by or in consequence of any negligence in guarding the same, or any improper materials used therein, or by or on account of any act or omission of the said plumber, or his agents; and said plumber shall faithfully perform the work in all respects, and shall also replace and restore the street pavement over every opening to as good state and condition as he found it; and keep and maintain the same in good order to the satisfaction of the said Commissioner, for the space of six months thereafter; and shall also comply in all respects with the rules and regulations established, relating to said water works; and also that he will pay all fines imposed upon him for a violation of any rule or regulation of the Commissioner. All licenses now in force shall expire on the 31st day of December next ensuing, and all licenses issued hereafter shall be for the term ending December 31st, next following their issue.

No licenses will be granted to other than practical plumbers, or to those who employ practical plumbers to do their work.

Each licensed plumber shall state his actual place of business, together with the name under which the business is done, and shall immediately notify the Commissioner of any change in either thereafter.

All work in a street or other public place must be done in the best manner to protect the public against injury, and to secure good and satisfactory work. The Commissioner may repair work which is unsatisfactory, after one day's notice and collect the cost from the plumber doing the work.

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The Commissioner and his authorized agents are to have, at all times, facilities for inspecting the plumbing or other work and fixtures while under the charge of the plumber.

All plumbing must be completed in a building before attachment is made to the service pipe, unless by special permit.

Where service pipes have been laid to or inside the curb line, or continued to the cellar foundation of building, for building purposes, a permit will be necessary for any additions thereto.

Plumbers shall make full written returns of the ordinary and special uses to which the water is designed to be applied under permits granted, whether of new work or alterations or additions, with a full description of all apparatus and arrangements for using the water in every case, the return to be made within forty-eight hours after attachment with the several pipes, or completion of alterations or additions. In case of the suspension of any part of the contemplated work for any cause, it shall be the duty of the plumber to make a return of the work as far as completed. No plumber or other unauthorized person will be allowed to turn on water.

No person, unless specially authorized by the Commissioner, will be permitted to make any connection with the main or distributing pipes.

No licensed plumber will be permitted to take out a permit for work to be done by a person not in the employ of such plumber.

Permission is required to be obtained by licensed plumbers for all work done.

The Commissioner shall have the right to impose a fine, not exceeding in any one case the sum of ten dollars, for violation of rules and regulations by licensed plumbers.

Violations of the rules and regulations or the conditions under which a license is taken, will subject the plumber to forfeiture of his license, or to a fine, or both, as well as to the penalties of his bond.

RULES FORBIDDING THE CONNECTION OF ANY OTHER WATER SUPPLY TO PIPES SUPPLIED WITH WATER BY THE CITY OF PROVIDENCE.

SECTION 1. No water pipes, in any building or premises, supplied with water by the city, shall be allowed to receive a supply of water from any other source. No connection of pipes having another supply controlled by valves or "shut-offs" will be allowed. Such pipes must be entirely disconnected, as there must be no possibility to supply other water to the city mains.

SEC. 2. The owner or authorized agent of any building or premises which has any water pipes connected in the manner prohibited by Section 1, shall, within sixty days after being notified by the Commissioner, disconnect the same, and if such pipes remain connected to the city water pipes after the time limited by said notice, the city water will be shut off from the building until all pipes are disconnected as specified in said Section 1. And if at any future time any pipes be reconnected in any building or premises in violation of said Section 1, all the city water supplied to pipes so connected will be shut off from said building or premises until the owner or authorized agent has paid a penalty of fifty dollars, and the pipes have been disconnected as specified in Section 1.

The following copy is given for the information of water takers:

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IN BOARD OF ALDERMEN.

(Board of Health.)

June 29, 1893.

The following resolution is read and passed, viz.:

RESOLVED, That the Commissioner of Public Works be and he is hereby directed to decline to supply water to any connecting-pipes made with the distribution pipes of the city, unless the same are supplied exclusively by the city water supply.

RULES FOR THE USE OF PRIVATE FIRE SUPPLIES.

Applications for private fire supplies must be accompanied by a full detailed plan, showing all connections contemplated with other fire supplies, tanks, and sewers, which shall be approved by the City Engineer before action will be taken thereon.

No changes, additions, or connections will be allowed except upon plans filed and approved in the same manner as with the original application for said supplies.

All work in connection with private fire supplies shall be done by a licensed plumber and under proper inspection, and all gates, valves, fire-plugs, and hydrants connected with such supply shall be sealed by the inspector when deemed necessary.

For the purpose of covering the expense of a proper inspection of the complicated systems of private fire connections now demanded, the following yearly rates will be charged, when Pawtuxet water is exclusively used for general purposes, viz.:

For one (1) supply	$5 00
For two (2) supplies, connected, but without auxiliary tank	10 00
Either one (1) or two (2) supplies connected to tank	15 00

When other water than that furnished by the city is used for general purposes, SPECIAL CONTRACTS OR LARGER ASSESSMENTS WILL BE MADE.

Private fire supplies and the fire apparatus connected with the same, may be tested by the parties owning the same, or by insurance inspectors, under the following conditions:

First—Notice to be given at the office of the Commissioner of Public Works that such test is desired, when date and hour will be agreed upon for said test.

Second—All tests to be made in the presence of the inspector assigned by the Commissioner, whose sole duty shall be to remove and replace the seals used on the fire apparatus and note the time required in making the test.

Third—The rates for testing are as follows:

One hour or less, $3.00;

For all time in excess of one (1) hour, $1.00 for each hour or fraction thereof.

Fourth—Water shall not be used from any private fire supply, nor seals broken or removed, except in case of fire, written notice of which is to be given at the office of the Commissioner within twenty-four hours after its occurrence.

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Fifth—Not more than two private fire connections from the city water mains will be allowed to any building or premises, except under exceptional circumstances, to be determined by the Commissioner. The connections may be made from one or more streets if the building or premises fronts upon the same. No pipes, however, will be allowed to be laid across a street.

Not more than two private fire connections from the city water mains will be allowed to be connected together under any circumstances in any building or premises.

When two private fire connections are connected together, a suitable check-valve must be placed upon each.

In conformity with the order of the Board of Health, no private fire system which is in any manner connected to the city water mains, shall have any other supply of water. No valves of any description will be allowed as "shut-offs" to any other supply, as there must not be a possibility of any other supply of water to such pipes.

When a tank is connected to a private fire system which is connected with the city water mains, it shall be subject to the following conditions: The only water that will be allowed to be supplied to the tank will be the water furnished by the city. Said water shall be measured by a meter. The supply pipe leading to the tank shall be entirely independent of the fire system proper. It can be directly connected to the city water mains, or to a regular service pipe which supplies city water to the premises where the tank is located.

The outlet end of the supply pipe of a gravity tank shall be placed at least six inches above the maximum water line of the tank, and the supply pipe of a pressure tank shall be so arranged as to prevent the water in the tank from flowing back into the city water mains. Each tank shall have a suitable check-valve upon the pipe leading from it to the distribution pipes of the fire system, for the purpose of preventing water from flowing into the tank from the city water mains.

A gravity tank shall be roofed over and constructed to prevent rain, snow, dust, or any other objectionable matter from getting into it. Each tank shall have a manhole and permanent ladders arranged for convenient access to its interior, and shall have an outlet in its bottom, so that it can be emptied entirely independent of the pipes of the fire system. The interior of each tank shall be thoroughly scoured out at least once in twelve months.

All "drips" of fire systems, which are intended to empty into a sewer, shall first discharge into an open tank, the outlet pipe of which shall be deeply trapped and connected with the sewer in the usual manner.

Sixth—For each and every violation of the above, in whole or in part, the offending party, at the discretion of the Commissioner, will be subject to a fine of not less than $5 00 nor more than $50.00, or be subject to having the supply shut off.

Owners or agents of property protected by private fire supplies shall cause copies of rules one to six to be kept posted conspicuously in their office, engine room, and upon each floor of any building where fire-plugs are located that can be used by any employé; and no plea of ignorance will be entertained by the Commissioner.

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CITY ENGINEER'S DEPARTMENT.

[See Revised City Ordinances, Chapter 34 and Chapter 869 of the Public Laws.]

CITY ENGINEER.

OTIS F. CLAPP.

CONSULTING ENGINEER.

J. HERBERT SHEDD.

CLERK IN CHARGE OF OFFICE.

HARVEY F. PAYTON.

PRINCIPALS AND ASSISTANTS.

Frank Allen,
Walter P. Andrews,
Harry L. Avery,
Harry E. B. Bailey,
Frank O. Bishop,
Hermon R. Bliss,
Frank B. Bourne,
John E. Bowen,
William G. Brennen,
Harry A. Briggs,
Robert F. Brown,
William A. Brown,
William D. Bullock,
Samuel B. Burnham,
George W. Buxton,
Thomas F. Campbell,
Leonard M. Cobb,
John F. Conaty,
Charles M. Cunliffe,
J. Vinton Dart,
David B. Fitts,
Frederick O. Gage,
Herbert M. Hatch,
William G. Holden,
H. Loring Huggins,
Charles M. Hunt,
Charles F. Janes,
John W. Kelly,
Walter L. Kendrick,
Daniel J. Kirby,
Herbert M. Knight,
John Maloney,
Walter W. Massie,
Henry G. McCarthy,
Edward S. McGregor,
James A. McKenna,
William H. McSoley,
Edward F. Moran,
Albeus P. Murray,
S. Frank Nolan,
L. Frederick Patstone,
Robert H. Peck,
Henry J. Reynolds,
Louis D. Richardson,
Elmer W. Ross,
Henry S. See,
Herbert E. Sherman,
Frederick H. Sibley,
Eugene W. Smith,
Walter G. Stackpole,
Edmund J. Steere,
Stephen A. Taft,
Elbert E. Tift,
Emile Tintanne,
William T. Webb,
Edmund B. Weston,
Lewis G. Whittelsey,
Clarence M. Winsor,
Irving S. Wood.

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JOINT COMMITTEE ON THE CITY ENGINEER'S DEPARTMENT.

WILLIAM C. BAKER, *Mayor and Chairman.*

IRA WINSOR, LEWIS E. DAVIS,
JOSEPH H. KENDRICK, WILLIAM BLAKELY,
JOSEPH D. GRINNELL.

BRIDGE DEPARTMENT.

[See Chapters 7 and 34 of the Revised City Ordinances, also Chapter 869 of the Public Laws.]

IN CHARGE OF PUBLIC BRIDGES.

ROBERT E. SMITH,

COMMISSIONER OF PUBLIC WORKS.

ADVISING COMMITTEE ON BRIDGES.

WALTER B. VINCENT, JAMES F. FREEMAN,
ABRAHAM A. GRAY, HORACE REMINGTON,
DENNIS F. McCARTHY, EDWIN LOWE,
HENRY B. WINSHIP, IRA WINSOR,
WILLIAM K. REYNOLDS, JAMES H. McGANN,
WILLIAM E. CLARKE, *Clerk.*

SUB-COMMITTEE.

WILLIAM K. REYNOLDS, *Chairman.*
ABRAHAM A. GRAY, WALTER B. VINCENT.

POINT STREET BRIDGE.

Walter S. Baxter, *Superintendent.*
Frank I. Baxter, *Assistant Superintendent.*
Thomas F. Nickerson, *Day Engineer.*
James McEvoy, *Night Engineer.*

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RED BRIDGE.

John Manning, *Superintendent.* Frederick A. Boss, *Assistant.*
William F. Feely, Watchman.

WASHINGTON BRIDGE.

Frederick H. Johnson, *Superintendent.* Nathaniel F. Dixon, *Engineer.*
Joseph M. Nolan, *Watchman.*

INSPECTION OF BUILDINGS.

INSPECTOR.

SPENCER B. HOPKINS.

ASSISTANT INSPECTOR.

HENRY W. GOFF.

CLERK.

CHARLES E. MYERS.

INSPECTION OF PLUMBING.

INSPECTOR.

REUBEN S. BEMIS.

Office hours, 8 to 9 A. M. and 1 to 2 P. M.

ASSISTANT INSPECTORS.

HORACE B. HOLLAND, WILLIAM H. CAMFIELD.

CLERK.

FRED E. DAVIS.

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PUBLIC PARKS.

SUPERINTENDENT.

JOSEPH D. FITTS.

Office at Roger Williams Park.

PARK COMMISSIONERS.

RICHARD H. DEMING, *Chairman.*

FRANK F. OLNEY, EDWIN D. McGUINNESS,

FRANK H. HARCOURT, *Secretary.*

Office at City Hall.

JOINT COMMITTEE ON PARKS.

AUGUSTINE JONES, *Chairman.*

LUKE KAVANAGH, DANIEL J. O'CONNELL,

EUGENE M. SAWIN, JAMES F. FREEMAN.

HARBOR.

HARBOR MASTER.

JAMES T. P. BUCKLIN.

JOINT COMMITTEE ON HARBOR.

JOSEPH D. GRINNELL, *Chairman.*

CHARLES SISSON, FRANK L. HINCKLEY,

MARVIN E. ALLEN, JAMES F. FREEMAN.

STEAM BOILERS.

[For Rules and Regulations of the Board of Aldermen, relating to Steam Boilers, see Revised City Ordinances, 1887, page 688, also Record of Board of Aldermen, December 31, 1896.]

INSPECTOR OF STEAM BOILERS.

JOHN T. DOYLE.

Residence, No. 29 Sheldon street.

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PUBLIC LAMPS.

SUPERINTENDENT OF LIGHTS.

OLIVER E. GREENE.

Hours from 10 to 12 A. M. and 2.30 to 5 P. M.

LAMPLIGHTERS.

William S. Armstrong,
George W. Boorom,
Marcus H. Bullock,
Frank J. Carney,
Henry Carney,
Charles A. Chace,
William Day,
Thomas Flynn,
Joseph W. H. Gayton,
Michael Mahar,
Bernard McMann,
John J. McKay,
James H. McManus,
Dennis Murphy,
John O'Neil,
Edward H. Smith,
Edward H. Smith, Jr.
Albert J. Webb,
William S. Webb.

FOREMAN.

THOMAS PERCIVAL.

TEAMSTER.

HAMMOND STANHOPE.

LAMP COMMITTEE OF THE BOARD OF ALDERMEN.

IRA WINSOR, *Chairman.*

JAMES F. FREEMAN,
DENNIS F. McCARTHY.

JOINT COMMITTEE ON LAMPS.

DENNIS H. SHEAHAN, *Chairman.*

THOMAS H. LEONARD,
MARVIN E. ALLEN,
LEWIS E. DAVIS,
IRA WINSOR.

Number of public lamps, December 31, 1897: Gas, 720; naphtha and gasoline, 1,420; electric, 1,800; incandescent, 40; total, 3,980.

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LICENSE COMMISSIONERS.

[See Chapters 816 and 1188 of the Public Laws.]

JOHN L. SPRAGUE, *Chairman.*

GEORGE H. BURNHAM, JOHN M. STUDLEY,
CHARLES EDWARD PAINE, THOMAS NIXON, *Clerk.*

WEIGHTS AND MEASURES.

SEALER OF WEIGHTS AND MEASURES.

GEORGE R. SHERMAN.

Office at Old Central Police Station on Canal street.

DEPUTY.

MARK C. MILRICK.

STREET SIGNS AND NUMBERS.

SUPERINTENDENT.

GEORGE R. SHERMAN.

Office at Old Central Police Station on Canal street.

COMMITTEE ON STREET SIGNS AND NUMBERS.

WALTER B. VINCENT, *Chairman.*

HORACE REMINGTON, JAMES F. FREEMAN.

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POLICE DEPARTMENT.

1898.

Headquarters at City Hall.

[See Revised City Ordinances, 1887, pages 463 and 466, etc., also Chapter No. 776 of the Public Laws.]

CHIEF OF POLICE.

REUBEN R. BAKER.

DEPUTY CHIEF OF POLICE.

PATRICK EGAN.

CLERK OF POLICE.

WILLIAM GARDINER.

ASSISTANT CLERK.

ABEL C. T. WHEELER.

POLICE SURGEON.

WILLIAM H. PALMER.

DETECTIVES.

PATRICK PARKER, *Chief.*

JAMES O. SWAN,
SILAS L. W. MERRILL,
PETER B. CANNON,
ALBERT E. NICKERSON.

SUPERINTENDENT OF HACKS.

GEORGE H. NORCROSS.

CLERK OF HACK DEPARTMENT.

JOHN R. FEELY.

PROPERTY CLERK.

STEPHEN F. BLANDING.

WARRANT OFFICERS.

EDWIN R. JONES,
ISAIAH LONG.

DAY SERGEANT.

BENJAMIN T. WHITE.

CITY HALL OFFICER.

JOHN W. POINIER.

MESSENGER.

CLARENCE E. VAUGHAN.

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CAPTAINS.

FRANK A. MATTHEWS, - - - - - -	FIRST DISTRICT.
EUGENE STEVENS, - - - - - - -	SECOND DISTRICT.
PATRICK J. MAGILL, - - - - - - -	THIRD DISTRICT.
JOSEPH MARSTON, - - - - - - -	FOURTH DISTRICT.
JEREMIAH COSTINE, - - - - - - -	FIFTH DISTRICT.
WILLIAM H. LEAVITT, - - - - - -	SIXTH DISTRICT.
WILLIAM H. CORY, - - - - - - -	SEVENTH DISTRICT.

LIEUTENANTS.

GEORGE H. DARY,
CONSTANT S. HORTON,
WILLIAM H. LAWRENCE,
JOHN A. MURRAY,
EDWARD O'NEILL,
FREDERICK A. RANKIN.
JAMES P. SCOTT.

SERGEANTS.

LEROY T. BENNETT,
GEORGE A. CLARK,
PETER F. GILMARTIN,
JOHN B. HARTNETT,
HENRY F. MORSE,
A. FRANK MOWRY,
JOSEPH A. PROUT,
WILLETT E. POTTER,
WILLIAM H. ROWE,
HUGH D. ROBBLEE,
EDWARD J. SMITH,
MAYNARD L. STONE,
THOMAS D. TYLER,
SAMUEL W. THOMAS,
WILLIAM P. WHIPPLE.

FIRST STATION.

Station House on Fountain street.

FRANK A. MATTHEWS, *Captain.*
CONSTANT S. HORTON, *Lieutenant.*

SERGEANTS.

EDWARD J. SMITH,
THOMAS D. TYLER,
WILLIAM H. ROWE.

DAY PATROLMEN.

Frank H. Anthony,
Charles B. Baird,
Malvin P. Bates,
George M. Chase,
Richard A. Clark,
Thomas J. Hanley,
Andrew P. Martin,
Frank L. Martin,
Francis H. Morton,
William F. O'Neill,
William N. Sherman,
John V. Simonds,
Nahum Willard.

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NIGHT PATROLMEN.

Charles A. Bennett,
Frank E. Blake,
Chester H. Blood,
Arthur P. Butts,
James J. Costigan,
Clarence W. Case,
Edward Dorsey,
Thomas J. Duffy,
Cornelius J. Dunn,
James F. Feeney,
Patrick J. Fanning,
John H. Hannifan,
William W. Huntley,
Thomas W. Jacobs,
James A. Lee,
Michael J. Luby,
James J. Lyons,
John H. Martin,
Edward J. McDonnell,
James H. Moffitt,
William F. Monroe,
Gilbert H. Norton,
William A. O'Brien,
Edward J. Robinson,
Arthur B. Rose,
James Shern,
Louis H. Streeter,
George R. Waterman,
Thomas Wolf.

SECOND STATION.

Corner of Chalkstone avenue and Ashburton street.

EUGENE STEVENS, *Captain.*
JOHN A. MURRAY, *Lieutenant.*
HUGH D. ROBBLEE, *Sergeant.*
JOHN B. HARTNETT, "

DAY PATROLMEN.

William Gilfoil,
George W. Boss,
William F. Hayden,
John F. Mathewson,
Edmund J. Munroe,
Murdock C. McKenzie,
George F. Nye.

NIGHT PATROLMEN.

Fred H. Blackman,
William H. Briggs,
James L. Coyle,
Thomas J. Curley.
William L. Doe,
Joseph H. Dowling,
Joseph J. Doyle,
Joseph R. Edwards,
James A. Flynn,
Charles E. Fort,
William A. Gillen,
Everett Hall,
Thomas L. Hunt,
John H. Hennessey,
George Irwin,
Thomas F. Kavanagh,

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Charles M. Kirby,
William C. Koch,
Francis H. Luby,
Thomas H. Little,
Thomas F. McGovern,
Thomas J. McCartin,
Dennis McCarthy,
Joseph McGroarty,
Patrick J. McElroy,
John T. McGirl,
Howard S. Paine,
Arthur D. Sharpe,
Thomas Reynolds,
Edward M. Whipple.

THIRD STATION.

Wickenden street.

PATRICK J. MAGILL, *Captain.*
EDWARD O'NEILL, *Lieutenant.*
WILLETT E. POTTER, *Sergeant.*
PETER F. GILMARTIN, "

DAY PATROLMEN.

Matthew F. Fitzpatrick,
Welcome U. Foye,
Thomas Harvey,
Joshua A. Nickerson,
John J. Toole,
Job S. Yeaw.

NIGHT PATROLMEN.

James Ash,
Joseph A. Arnold,
Skinner A. Collier,
John Conaty,
William H. Conlon,
Charles W. Darling,
William Dolan,
James Fay,
Joseph N. Flynn,
William H. Gale,
Peter H. Galligan,
Michael E. Kelley,
John Linehan,
John F. Lyons,
Charles Mayno,
John F. McGovern,
Thomas L. Nolan,
Francis O'Connor,
John J. O'Melley,
James J. Riley,
Thomas Rooney,
Stephen Ryan,
John H. Sheehan,
John J. Sullivan,
William F. Scanlan,
Claude B. Tidd,
Willard I. Turner,
John W. Ward.

FOURTH STATION.

Knight street.

JOSEPH MARSTON, *Captain.*
FREDERICK A. RANKIN, *Lieutenant.*
A. FRANK MOWRY, *Sergeant.*
MAYNARD L. STONE, "

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DAY PATROLMEN.

Owen E. Brehaney,
Luther C. Bugbee,
Peter F. Duffy,
Ralph E. Gifford,
Owen King,
William A. Munroe.

NIGHT PATROLMEN.

John H. Armstrong,
Otis W. Baker,
Louis H. Bartlett,
Herbert C. Blood,
Edward D. Coakley,
Eugene F. Dailey,
Frederick A. Daniels,
William H. Ferguson,
Richard Gamble,
George J. Gammill,
Hyman G. Goldsmith,
Charles B. Gorey,
Peter Gormley,
Peter H. Healey,
Thomas Hopkins,
Francis P. Johnson,
Alfred S. Keach,
Andrew J. Kennedy,
Charles E. McSoley,
Hart B. Pierce,
Frederick E. Reed,
Michael Reynolds,
Joseph G. Handy,
Warren M. Smith,
Albert E. Wixon,
William M. Wyman.

FIFTH STATION.

Plain street corner of Borden street.

JEREMIAH COSTINE, *Captain.*
WILLIAM H. LAWRENCE, *Lieutenant.*
JOSEPH A. PROUT, *Sergeant.*
LEROY T. BENNETT, "

DAY PATROLMEN.

Julius B. Alfred,
William E. Bowen,
William Bradbury,
Robert M. Connors,
Cornelius Daly,
Michael Griffin,
Chandler B. Robinson.

NIGHT PATROLMEN.

Edward W. Baker,
Alonzo J. Brown,
Hartley W. Brown,
Patrick Blessing,
James M. Cannon,
Edward D. Coakley,
George N. Cobb,
Michael Conlon,
Michael J. Cunningham,
Frank Di Grado,
John Galagher,
Thomas E. Kane,

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William S. Kent,
Walter S. Keene,
Thomas J. Kiley,
Neil J. McDonald,
Bradford G. Niles,
William F. O'Brien,
William H. Place,
Owen Rice,
Frank Schiller,
Samuel D. Sessions,
Thomas J. Smith,
John F. Toole,
J. Henry Wilbur,
Thomas A. Wallace,
Herbert M. Willard.

SIXTH STATION.

Corner Chaffee and Capron streets,

WILLIAM H. LEAVITT, *Captain.*
GEORGE H. DARY, *Lieutenant.*
WILLIAM P. WHIPPLE, *Sergeant.*
HENRY F. MORSE, "

DAY PATROLMEN.

Timothy T. Arnold,
John N. Dyer,
Frank M. Miller,
James P. McLaughlin,
Patrick A. Sullivan,

NIGHT PATROLMEN.

Joseph M. Ahern,
Hiram Allen, 3d,
Patrick Devine,
Fred G. Dietz,
Elden W. Doe,
Patrick H. Dulin,
James Feeley,
Patrick J. Feeney,
Martin P. Feeny,
Marcelle Hannon,
James Kelleher,
Edward McGuire,
Henry H. Place,
Jeremiah H. Shea,
Isaiah B. Sherman,
John H. Smith,
Joseph E. Stockley,
Charles A. Tanner,
Algernon S. Tucker,
Julius A. Webb,
Albert N. White,
George A. Wyman,
Charles S. Young.

SEVENTH STATION.

Burnett street, corner Public street.

WILLIAM H. CORY, *Captain.*
JAMES P. SCOTT, *Lieutenant.*
GEORGE A CLARK, *Sergeant,*
SAMUEL W. THOMAS, "

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DAY PATROLMEN.

Alexander Charnley,
Frank E. Dunlavey,
Hiram Hart,
Patrick McGuire,
John F. Muldoon,
William E. Poinier.

NIGHT PATROLMEN.

P. Joseph Burns,
William W. Chace,
Everett M. Corey,
Thomas E. Darcy,
Frank P. Day,
Bernard J. Fay,
Duty J. Greene,
John T. Haran,
Jason W. Harvey,
Charles E. Holland,
Thomas F. Jones,
Patrick J. Kearns,
Dennis F. Mahoney,
John J. McCaffrey,
Charles E. Smith,
George W. Stewart,
Charles H. Streker,
Edward. J. Tiernan.

SUPERINTENDENT OF POLICE TELEGRAPH AND SIGNAL BOXES.

NATHAN M. RUSSELL.

CLIMBER.

LEWIS C. LEIGHTON.

BATTERYMAN.

HUGH A. McMANUS.

SUPERANNUATED OFFICERS.

Josiah Bennett,
Daniel T. Colwell.
Joseph B. Curtis,
John B. Livsey,
Joseph W. Pratt,
Lorenzo D. Prosser,
Theodore Rutherford,
James L. Sherman,
John K. Tripp,
Thomas D. Topliff.

DRIVERS OF PATROL WAGONS.

Everett C. Bliss,
Charles Burrows,
Thomas E. Colton,
Alfred J. Crowell,
John Giblin,
Walter B. Horr,
Charles W. Higgins,
James E. Johnson,
George W. Lovell,
Hugh Maines,
Frank McGair,
Silas A. Smith,

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POLICE COMMITTEE OF THE BOARD OF ALDERMEN.

DENNIS F. McCARTHY, *Chairman.*

ABRAHAM A. GRAY, HORACE REMINGTON.

JOINT COMMITTEE ON POLICE.

JAMES H. KELLY, *Chairman.*

WILLIAM H. MORGAN, HENRY FLETCHER,

LUKE KAVANAGH, DENNIS F. McCARTHY.

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PROVIDENCE POLICE ASSOCIATION.

[Incorporated March 9, 1870.]

OFFICERS.

EDWARD J. SMITH, ...	*President.*
PETER F. DUFFY, ...	*Vice-President.*
STEPHEN F. BLANDING, ...	*Secretary.*
CONSTANT S. HORTON, ...	*Treasurer.*

DIRECTORS.

JAMES H. MOFFITT,	LE ROY T. BENNETT,
EDWARD M. WHIPPLE,	HIRAM ALLEN, 3rd,
JOHN W. WARD,	JOHN J. McCAFFREY,
FREDERICK A. DANIELS,	GEORGE H. NORCROSS.

FINANCE COMMITTEE.

WILLIAM GARDINER, RICHARD A. CLARK,
ABEL C. T. WHEELER.

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FIRE DEPARTMEMT.

1898.

[See City Ordinances, Chapter 625, and Chapter 1100 of the Public Laws.]

BOARD OF FIRE COMMISSIONERS.

Headquarters, City Hall.

STILLMAN WHITE, *Chairman.*

WILLIAM H. LUTHER, DEXTER GORTON.

CLERK.

JOHN W. MORROW.

Residence, 171 Prairie avenue.

CHIEF ENGINEER.

GEORGE A. STEERE.

Headquarters at Central Fire Station.

DEPUTY CHIEF ENGINEER.

HOLDEN O. HILL.

Headquarters at Central Fire Station.

ASSISTANT ENGINEERS.

GEORGE F. BATTEY.

Headquarters at Station No. 4.

HORACE P. GRISWOLD.

Headquarters at Station No. 8.

SUPPLY CLERK.

HENRY R. BEEHLER.

FIRE ALARM TELEGRAPH.

CHARLES G. CLOUDMAN, *Superintendent.*

ARTHUR D. SAYWARD, *Assistant Superintendent.*

ABNER S. TOMPKINS, *Lieut.* HERBERT H. TOTTEN, *Operator.*

THOMAS F. CARRY, *Operator.*

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HOSE COMPANY, No. I.

WASHINGTON.

House on Exchange Place.

JAMES M. CURTIS, *Captain.*
THOMAS F. SISSON, *Lieutenant.*

Hosemen.

Charles A. Cook,
Thomas H. Mullen,
Byron C. Howard,
Walter Sonner,
Burrill Arnold,
Driver, Walter H. Durfee.

Hose Wagon built in 1891 by F. P. Pearce of Providence, R. I.

ENGINE COMPANY, No. II.

PIONEER.

House on South Main street.

HENRY A. WILKEY, *Captain.*
THOMAS J. COLBURN, *Lieutenant.*
MERRILL E. HICKS, *Engineman.*
JOHN B. MILLER, *Assistant Engineman.*

Hosemen.

Owen McElroy,
William H. Collins,
Daniel R. Munroe,
John R. Sherman,
Francis H. Morton, Jr.
Hose Driver, John E. Carlin.
Thomas J. Morrissey, *Engine Driver.*

Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892. Engine built by the La France Fire Engine Co., of Elmira, N. Y., in 1890.

HOSE COMPANY, No. III.

FIRE KING.

House on Pond street.

OSCAR F. MILLETT, *Captain.*
THOMAS R. GORTON, *Lieutenant.*

Hosemen.

Asa G. Davis,
William F. Maines,
Henry MacLean,
Walter H. Hildreth
Benedict P. Grant,
Driver, James H. Penney.

Hose Wagon built by Archibald Martin, Providence, R. I., in 1895.

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ENGINE COMPANY No. IV.

DEXTER GORTON.

House on Mill street.

REUBEN D. WEEKS, *Captain.*
HERMAN H. FISHER, *Lieutenant.*
MICHAEL O'GARA, *Engineman.*
GEORGE H. JOHNSON, *Assistant Engineman.*

Hosemen.

Christopher J. Read, Jr.,
James W. Crawford,
Charles S. Irwin,
George H. Noon,
Ambrose B. Phillips,
Engine Driver, George C. Woodbury.
Harry E. Carpenter, *Hose Driver.*

Engine built by American Fire Engine Company, Seneca Falls, N. Y., in 1896. Hose Wagon built by Archibald Martin. Providence, R. I., in 1890.

ENGINE COMPANY No. V.

NIAGARA.

House corner East avenue and Olney street.

WILLIAM F. GAVITT, *Captain.*
WALTER L. DAMON, *Lieutenant.*
CHARLES H. HANDY, *Engineman.*
JOHN GRAHAM, *Assistant Engineman.*

Hosemen.

John H. Goulding,
Thomas Ryan,
Daniel Burdick,
John G. McIntosh,
Engine Driver, John R. Babcock,
Hose Driver, Charles H. McCold.

Engine was built by Cole Brothers, of Pawtucket, R. I., in 1866. Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892.

HOSE COMPANY No. VI.

WATER WITCH.

House on Benevolent street.

THOMAS W. D. REYNOLDS, *Captain.*
WILLIAM H. SALISBURY, *Lieutenant.*

Hosemen.

John H. Witchell,
Frank K. Wilkey,
Nicholas A. Falck,
John I. McKay,
Daniel P. Douglass,
Granville M. Borden,
Edward D. Fuller,
Hose Driver, Edmund H. Webber.
Otis P. Dill, *Chemical Driver.*

Hose Wagon built by Archibald Martin, Providence, R. I., in 1895, Chemical Engine built by the Babcock Fire Extinguisher Co., Chicago, Ill., in 1882.

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HOSE COMPANY No. VII.

OCEAN.

House on Richmond street.

THOMAS F. McNEAL, *Captain.*
ABNER G. ALLEN, *Lieutenant.*

Hosemen.

Frank M. Tillinghast,
David W. Capron,
Mahlon D. Brown,
George A. Capron,
George H. Goff,
Patrick H. Hackett,
George M. Hayward,
Hose Driver, Ellsworth E. Blackinton.
Everett E. Potter, *Chemical Driver.*

Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892. Chemical Engine built by the Babcock Fire Extinguisher Manufacturing Co., Chicago, Ill., in 1882.

ENGINE COMPANY No. VIII.

House on Harrison street.

JOSEPH H. PENNO, *Captain.*
FRANK E. TABER, *Lieutenant.*
THOMAS BRANNIGAN, *Engineman.*
JOHN W. BOOTH, *Assistant Engineman.*

Hosemen.

Stephen C. Miller,
Patrick J. Smith,
Frederick C. Walden,
William E. Viall,
Hose Driver, Nicholas T. Feely.
Engine Driver, John L. Mathewson.

Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892. Engine built by Silsby Manufacturing Co., Seneca Falls, N. Y., in 1890.

HOSE COMPANY No. IX.

JOHN W. TILLINGHAST.

House corner Atwell's avenue and America street.

PHILIP W. KELLY, *Captain.*
WILLIAM W. KELLY, *Lieutenant.*

Hosemen.

John H. Hall,
Herbert B. Kelly,
William E. Gardiner,
Frank E. Bailey,
Harry R. Angell,
Driver, Charles B. Atwood.

Hose Wagon built by Moulton & Son, Providence, R. I., in 1896.

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ENGINE COMPANY No. X.

WASHINGTON.

House on Burnside street.

JOHN H. CAPRON, *Captain.*
WILLIAM F. COFFIN, *Lieutenant.*
FRANCIS D. CHESTER, *Engineman.*
ANDREW J. FISHER, *Assistant Engineman.*

Hosemen.

George H. Simmons, Charles H. LeClair,
Samuel Loxley, *Engine Driver*, Byron I. Keach.
Thomas H. Jones, *Hose Driver.*

Hose Wagon built by John G. McIntosh, Providence, R. I., in 1893. Engine built by the American Fire Engine Co., Seneca Falls, N. Y., in 1893.

HOSE COMPANY No. XI.

ELMWOOD.

House on Oakland street.

BENJAMIN F. HARRINGTON, *Captain.*
WALTER A. VAUGHAN, *Lieutenant.*

Hosemen.

Frederick H. Field, Albert A. Holbrook,
William A. Orr, Clifton A. Spafford,
William A. Millard, *Driver*, Edward F. Curtis.

Hose Wagon built by Archibald Martin, Providence, R. I., in 1875.

ENGINE COMPANY No. XII.

STILLMAN WHITE.

House junction Smith and Orms streets.

EDWIN G. ANDREWS, *Captain.*
HORACE S. BLAKE, *Lieutenant.*
CHARLES H. SHIPPEE, *Engineman.*
ALBERT J. FLECKHAMER, *Assistant Engineman.*

Hosemen.

Thomas H. Jenckes, George E. Jenckes,
Robert H. Waller, *Engine Driver*, Frank H. Linnell,
Clarence C. Thomas, *Hose Driver*, Leprelett W. Esten.

Hose Wagon built by John G. McIntosh, Providence, R. I., in 1893. Engine built by Cole Brothers, Pawtucket, R. I., in 1871.

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HOSE COMPANY No. XIII.

GOOD WILL.

House on Central street.

HIRAM D. BUTTS, *Captain.*
DANIEL A. NICHOLS, *Lieutenaut.*

Hosemen.

Owen Trainor,
Joseph Devine,
Edward H. Washington,
Robert Bucklin,
George H. Webber,
Driver, George Barbour.

Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892.

ENGINE COMPANY No. XIV.

PUTNAM.

House on Putnam street.

LEWIS A. CUTLER, *Captain.*
PETER GREENE, *Lieutenant.*
ROBERT G. HASKINS, *Engineman.*
ISAAC L. BLACKMAR, *Assistant Engineman.*

Hosemen.

Nicholas Waterman,
John Regan,
Frank E. Carberry,
Engine Driver, Patrick Kelley.

Charles W. Sherman, *Hose Driver.*

Hose Wagon built by John G. McIntosh, Providence, R. I., in 1893.
Engine built by the La France Fire Engine Co., Elmira, N. Y., in 1893.

HOSE COMPANY No. XV.

WHAT CHEER.

House on Wickenden street.

THOMAS H. DUFFY, *Captain.*
CHARLES T. WITCHELL, *Lieutenant.*

Hosemen.

Frank A. Scott,
Henry Charlwood,
Jeremiah Splan,
William S. Fenner,
William Patterson,
William J. Gray.

John L. Keith, *Driver.*

Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892.

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ENGINE COMPANY, No. XVI.

House Corner Branch avenue and Charles street.

LEWIS A. LUSIGNAN, *Captain.*
HENRY M. BRIGGS, *Lieutenant.*
WILLIAM H. GLASSGOW, *Engineman.*
FREEMAN A. RICHARDSON, *Assistant Engineman.*

Hosemen.

William J. Sumption, Andrew C. Wrisley,
Joseph H. Davis, *Engine Driver*, John J. O'Connor,
John C. Kennedy, *Hose Driver.*

Hose Wagon built by Moulton & Son, in 1885. Engine built by the Silsby Manufacturing Co., Seneca Falls, N. Y., in 1891.

HOSE COMPANY, No. XVII.

House corner North Main street and Doyle avenue.

WILLIAM H. GARVIN, *Captain.*
JAMES H. DEAN, *Lieutenant.*

Hosemen.

Charles W. Gillooly, Michael H. Cavey,
John J. Banks, Edward J. Nagle,
Robert P. Patterson, *Driver*, George A. Bugbee.

Hose Wagon built by F. P. Pearce & Co., Providence, R. I., in 1892.

HOSE COMPANY, No. XVIII.

OLIVER E. GREENE.

House junction Broad and Rugby streets.

WILLIAM H. JOHNSON, *Captain.*
HENRY B. HALL, *Lieutenant.*

Hosemen.

Joseph W. Johnson, Frank L. Thomas,
Bernard F. Sisson, James T. Goff,
John A. Worth, *Driver.*

Combination Hose Wagon and Chemical Engine, built by the Fire Extinguisher Manufacturing Co., Chicago, Ill., in 1893.

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HOSE COMPANY, No. XIX.

House on Haymarket street.

JOHN HUTCHISON, *Captain.*
LEANDER D. DAWLEY, *Lieutenant.*
Albert L. E. Cornell, *Hoseman.* *Driver*, Frank N. Benchley.

Hose Wagon built by Archibald Martin, Providence, R. I., in 1887.

HOSE COMPANY No. XX.

House on Manton avenue.

THOMAS McCOID, *Captain.*
JAMES DOWLING, *Lieutenant.*

Hosemen.

William Benford, James B. Mulcahey,
John H. Fischer, John H. Carley,
Frederick L. Capron, *Driver.*

Combination Hose Wagon and Chemical Engine built by C. T. Holloway of Baltimore, Md., in 1897.

HOOK AND LADDER COMPANY, No. 1.

House on Exchange place.

JOSEPH W. CARPENTER, *Captain.*
JOSEPH D. KENT, *Lieutenant.*

Laddermen.

Charles R. Wyatt, Clement D. Pelrine,
Hugh McCartin, John W. Mackenzie,
William H. Buffum, Nahum E. Willard,
William Burke, Updike C. Mowry,
Frank Kenney, *Driver*, Howard E. Sherburne.

First size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., in 1884.

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HOOK AND LADDER COMPANY, No. 2.

House on Harrison street.

FRANK E. ATKINSON, *Captain.*
CHARLES O. MESSENGER, *Lieutenant.*

Laddermen.

Henry W. Irwin,
Isaac W. Wyatt,
George A. Brown,
Richard J. Powers,
Patrick C. Henry,
David A. Bigney,

George W. Harding, *Driver.*

Second size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., in 1889.

HOOK AND LADDER COMPANY, No. 3.

UNION.

House junction Smith and Orms streets.

JAMES C. HUBBARD, *Captain.*
GEORGE GOLDING, *Lieutenant.*

Laddermen.

Edwin H. Day,
Thomas H. Gibbons,
William J. Young,
William H. Holbrook,
Thomas E. Crockett,
William Dunlap,
George M. Gardiner,
Frederic L. Smith,

William A. Berry, *Driver.*

Truck built by Ryan Brothers, Boston, Mass., in 1882, and has an improved Bangor ladder.

HOOK AND LADDER COMPANY No. 4.

JOHN B. CHASE.

House on Wickenden street.

ADELBERT A. HOPKINS, *Captain.*
EDMUND B. PECK, *Lieutenant.*

Laddermen.

William S. Robinson,
James Hall,
Joseph F. McDonald,
Frank A. Eldred,
George T. Lawder,
Thomas M. Dawson,
Gordon Kerr,

Driver, Martin Kane.

Truck built by Moulton & Remington, Providence, R. I., and has an improved Bangor Ladder.

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HOOK AND LADDER COMPANY No. 5.

WILLIAM H. LUTHER.

House Corner Public and Burnside streets.

BENSON W. JOHNSON, *Captain.*
JAMES R. DAVIS, *Lieutenant.*

Laddermen.

Fred A. Wallace,
Charles H. Carpenter,
Charles W. Moore,
Gilbert S. Inman,
Felix Rush,
Crawford A. Cornell,
George H. Thurston,
Edward J. Hall,

Clarence E. Horton, *Driver.*

Truck built by Moulton & Son, Providence, R. I., in 1885, and has an improved Bangor ladder.

HOOK AND LADDER COMPANY, No. 6.

House corner Atwell's avenue and America street.

WILLIAM F. SMITH, *Captain.*
WILLIAM E. SULLIVAN, *Lieutenant.*

Laddermen.

John E. Meledy,
Michael J. Dugan,
Michael H. Farrell,
Robert H. McDonald,
William J. Sherman,
Christopher Carpenter,
James Mulgrew,
Driver, James McCartin.

Second size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., in 1892.

HOOK AND LADDER COMPANY, No. 7.

House Corner East avenue and Olney street.

CHARLES J. CONNOR, *Captain*
JOHN F. STACKPOLE, *Lieutenant.*

Laddermen.

Walter A. Manchester,
John D. Murphy,
Edward S. Doherty,
Edward C. Becker,
Benjamin N. Brown,
Driver, James P. O'Sullivan.

Third size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., in 1891.

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PROVIDENCE PROTECTIVE COMPANY No. 1.

Organized February 1, 1875.

House on Richmond street.

CHARLES H. SWAN, *Captain.*

DAVID G. KNOTT, *Lieutenant.*

Covermen.

James R. McLean,
David C. Carey,
Herbert L. Burrows,
Walter A. C. French,
Ernest R. Quimby,
Driver, George T. Lonergan.

Manuel Burgess, *Driver.*

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OFFICERS FOR THE YEAR 1897.

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RESOURCE COMMITTEE.

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FINANCE COMMITTEE.

George H. Thurston, Edwin H. Day, Peter Greene.

BURIAL LOT COMMITTEE.

James H. Dean, Joseph F. McDonald, John D. Murphy.

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OFFICERS FOR THE YEAR 1897-98.

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HOLDEN O. HILL, *Treasurer.*

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SCHOOL COMMITTEE.

[Elected by the People in November.]

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HENRY B. ROSE, SECRETARY.

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JOSEPH H. KENDRICK, President of the Common Council.
MARINUS W. GARDINER, Chairman of Committee on Education.

FIRST WARD.

	Term expires
CHARLES A. CATLIN	1898
HENRY V. A. JOSLIN	1899
FLETCHER S. MASON	1900

SECOND WARD.

CHARLES H. PHILBRICK	1898
ALFRED METCALF	1899
STEPHEN O. EDWARDS	1900

THIRD WARD.

JOHN J. DEVENISH	1898
JOHN T. RAFTERY	1899
DENNIS F. McCARTHY	1900

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FOURTH WARD.

EDWIN B. HARVEY.....1898
WILLIAM R. WHITE.....1899
HELEN M. C. KENDRICK.....1900

FIFTH WARD.

MARINUS W. GARDINER.....1898
WILLIAM A. CRANSTON.....1899
LLOYD C. EDDY.....1900

SIXTH WARD.

WALTER H. BARNEY.....1898
ORSMUS A. TAFT.....1899
FREDERICK RUECKERT.....1900

SEVENTH WARD.

HENRY R. BARKER.....1898
SILAS H. MANCHESTER.....1899
H. HOWARD PEPPER.....1900

EIGHTH WARD.

CHARLES R. STARK.....1898
LESTER S. HILL.....1899
P. FRANCIS WALKER.....1900

NINTH WARD.

HUNTER C. WHITE.....1898
JOHN G. MASSIE.....1899
H. EDWARD THURSTON.....1900

TENTH WARD.

JAMES M. GILLRAIN.....1898
JOSEPH O. SAN SOUCI.....1899
WILLIAM J. BEANE.....1900

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FLETCHER S. MASON,
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HENRY V. A. JOSLIN,
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JAMES M. GILLRAIN, CHARLES A. CATLIN,

SECRETARY OF STANDING COMMITTEES.

HENRY B. ROSE.

The President is ex-officio a member of all Committees.

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To investigate the Sloyd System of Modeling and Wood Carving.

WILLIAM R. WHITE, *Chairman.*

CHALRES H. PHILBRICK, HELEN M. C. KENDRICK.

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SECOND WARD.
ALFRED METCALF.

THIRD WARD.
DENNIS F. McCARTHY.

FOURTH WARD.
WILLIAM R. WHITE.

FIFTH WARD.
WILLIAM A. CRANSTON.

SIXTH WARD.
FREDERICK RUECKERT.

SEVENTH WARD.
SILAS H. MANCHESTER.

EIGHTH WARD.
P. FRANCIS WALKER.

NINTH WARD.
HUNTER C. WHITE.

TENTH WARD.
JOSEPH O. SAN SOUCI.

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CLERKS.

HOFFMAN S. DORCHESTER, RHODA A. ESTEN,
MARY E. CARPENTER, EMMA A. MORRIS

TEACHERS.

HIGH SCHOOLS.

ENGLISH HIGH SCHOOL.

DAVID W. HOYT	Principal.
ALICE D. MUMFORD	First Assistant.
SIDNEY A. SHERMAN	Second "
HERBERT A. BLAKE	" "
WILLIAM H. EDDY	" "
VICTOR FRAZEE	" "
AGNES F. WILLIAMS	" "
REBECCA E. CHASE	Third "
ELLEN DODGE	" "
ROSAMOND R. LEAVENS	" "
HARRIET L. HAYWARD	" "
ABBY M. B. SLADE	" "
FLORENCE A. WILLIAMS	" "
HARRIET P. FULLER	" "
HOWARD D. DAY	" "
HENRY O. TRIPP	" "
LIZZIE E. OLNEY	" "
SUSAN S. BRAYTON	" "
GRACE H. PARKER	" "
AUGUSTUS T. SWIFT	" "
ELIZABETH J. CHASE	Fourth "
WALTER H. RUSSELL	" "
EARL C. ARNOLD	" "
JOHN A. HOWLAND	" "
HARRIET E. PIERCE	" "

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Lilian B. Miner	Fourth Assistant.
Eliza M. Peirce	" "
Frances E. Mosher	" "
Amey Owen Aldrich	" "
Sibyl Howe Avery	" "
Nora G. Wright	" "
Isabel Warwick Bliss	" "
Florence Josephine Whiting	" "
Alice Reeve Pierce	" "
Katherine G. Lynch	" "

CLASSICAL HIGH SCHOOL.

William T. Peck	Principal.
Walter Ballou Jacobs	First Assistant.
Charles E. Dennis, Jr.	Second "
Herbert E. Drake	" "
Emily I. Meader	" "
Elizabeth G. Hoyt	Third "
E. Helena Gregory	" "
Harriet M. Hathaway	" "
Alice R. Sheppard	" "
Frank E. Lakey	" "
Horace E. Jacobs	" "
Hermann Mueller	" "
Charles E. Tilley	" "
Mary A. Hall	Fourth "
Henry H. Waterman	" "
G. Frederick Frost	" "
Bessie S. Warner	" "
Charlotte J. Morrill	" "

MANUAL TRAINING HIGH SCHOOL.

George F. Weston	Principal.
Miner H. Paddock	First Assistant.
Leonard H. Campbell	Second "
Arthur L. Wheeler	" "
Isaac O. Winslow	" "
Frank A. Cook	" "
William H. Millington	Third "
Robert H. Day	Fourth "
Edith H. Williston	" "
Abby L. Marlatt	Second Assistant (Domestic Science).

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LUCY H. PIERCE	Third	Assistant	(Domestic Art).
WILLIAM O. HAMBLIN	Second	"	(Drawing).
AUGUSTUS F. ROSE	Fourth	"	"
GARDNER B. WILLIS	"	"	"
CHARLES A. DAVIS	Third	"	(Wood-Work).
FRED R. INMAN	"	"	"
W. WASHINGTON DOVE	Second	"	(Metal Work).
ALVIN B. MARTIN	Third	"	(Engineer).

HIGH SCHOOL TRAINING DEPARTMENT.

WALTER BALLOU JACOBS, A. M., Director.
Associate Professor of Pedagogy, Brown University.

SUPERVISING TEACHERS.

DAVID W. HOYT, A. M.	Physics and Chemistry.
WILLIAM T. PECK, D. Sc.	Latin.
ALICE D. MUMFORD, A. M.	English.
CHARLES E. DENNIS, JR., PH. D.	Greek.
AGNES F. WILLIAMS, A. M.	Modern Languages.
EMILY I. MEADER, A. B.	English.
CHARLES E. TILLEY, A. M.	History.
ELIZABETH G. HOYT, A. M.	Mathematics.

STUDENT TEACHERS.

JOSEPHINE A. BEANE, A. B.	Latin, English.
WILLIAM C. BLISS, A. B.	Latin, History, Botany.
MABELLE A. CAFFREY, A. B.	English, French.
FLORENCE P. CASE, A. B.	Latin, English.
BERTHA B. GRANT, A. B.	Greek, Algebra, Latin.
MARCUS W. JERNEGAN, A. B.	History, Algebra, Botany.
SADIE E. MCCREADY, B. P.	French, English, History.
EDA M. ROUND, B. P.	History, English, Algebra, Botany.
HOWARD C. TILTON, A. M.	Physics, Chemistry, Algebra, History.
CLARA WHITEHEAD, A. B.	Algebra, Geometry, Physics.

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Emma J. Craig (*Critic*),
Hannah M. Crocker,
Maud H. Perrin,
Sabra M. Anderson,
Rachel G. Linton,
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BRANCH AVENUE GRAMMAR SCHOOL.

MARTHA B. TEEL, *Principal.*

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Mary A. Kindelan,
Susie G. Duffy,
Alice C. Tripp,
Clara L. Sullivan (*Primary*),
Alice F. White, "
Mary L. Cawley, "
Lillian L. Farr,
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BRIDGHAM STREET GRAMMAR SCHOOL.

LEVI W. RUSSELL, *Principal.*

ASSISTANTS.

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Harriet A. Swan,
Lucy M. Beane,
Anna F. Dean,
May E. Hall,
Mary C. Hazard,
Flora D. Spink,
Jennie L. Tobey,
Anne P. Walker,
Mary A. Cummings,
Edith M. Short.

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RICHARD W. SMITH, *Principal.*

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Abby M. Harvey,
Estelle A. Barker,
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Harriet E. Wood,
Ellen L. Virgin,
Catherine O'Reilly,
Elizabeth J. Molloy,
Ella Blackburn,
Margaret L. Kane,
Anne Carnoe,
Mary E. Nowell (*Primary*),
Sarah J. H. Bacon, "
Annie L. Stimpson, "
May T. Tobin, "
Agnes A. Foster,
Josephine Bishop.

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NATHAN G. KINGSLEY, *Principal.*

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Nellie G. Johnson,
Harriet A. Rea,
Frances H. Fowler,
M. Florence Brown,
Sara Fletcher,
Stella F. Nickerson,
Charlotte K. Clarke,
S. Amelia Glazer,
M. Eliza Douglas,
Charlotte E. Caffrey,
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Florence H. C. Oliver,
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JOSEPH E. MOWRY, *Principal.*

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Elinor F. Harris,
Rebecca L. Ring,
Anna F. Baker,
Dorcas B. Teel,
Lizzie M. Emerson,
N. Esther Lindsay,
Mary A. McArdle,
Mary B. Harris (*Primary*),
Marion L. Gardiner,
Adela N. Padelford,
Emily A. Crosby.

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Marion A. Place,
Margaret H. Small,
Flora E. Angell,
Adah S. Watson,
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Nellie F. Crocker,
Jennie O. Kennedy,
Susan E. Waite,
Emma Grant,
Eleanor Dunn,
Ella Robinson,
Ida B. Smith, *Critic Teacher,*
Ethel G. Ball,
Margaret G. Smith.

PEACE STREET GRAMMAR SCHOOL.

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Mary E. Sullivan,
Anna L. Bliven,
Sallie R. Swan,
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Ida M. Thomas, *First Critic Teacher.*

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Lucy C. Stanley,
Georgianna M. Hall, *Critic Teacher,*
Delia E. Harvey,
Laura E. Almy,
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Isabelle F. Martin,
Mildred E. Moss,
Lucy M. Danielson,
Cora G. Crapon (*Primary*),

Delia E. Harvey.

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Caroline A. Vaughan,
Mary L. Peck,
Clara M. Polk,
Mary A. Helme,
Anna M. Gerald,
Eleanor H. Rhodes,
S. Jeanette Parmenter,
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Laura C. Burroughs,
Lydia S. Durfee,
Mabel A. Garceau,
Anna T. Farrell.
Mabel E. A. Waite,
Anna C. Hines,
Annie R. Barbour,
Eleanor H. Burroughs.

PRIMARY SCHOOLS.

Supervisors of Grammar and Primary Schools.

Ella M. Pierce,
Bessie M. Scholfield,
Ida B. Smith.

ADMIRAL STREET,
Anna G. Duffy, Principal.
Carrie E. Drew, Assistant.
Emma P. Hussey, "
Hattie J. Mann, "

AFRICA STREET,
Della S. Freeman, Principal and Critic.
Mabelle A. Davis, Assistant.
Amy V. Wickett, "

ALDRICH STREET,
Mary A. Farrell, Principal.
Mary E. Mykins, Assistant.

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ALMY STREET,	Lena D. Sheldon, Principal.
	Cora A. Bowen, Assistant.
	Florence L. Cowdrey, "
AMERICA STREET,	Lena O'Keefe, Principal.
	Pearl M. Tillinghast, Assistant.
AMHERST STREET,	Louise M. Corcoran, Principal.
	Ellen A. McGuirk, Assistant.
	Sarah J. E. Healy, "
	Celia B. McAleer, "
ARNOLD STREET,	Mary E. Bicknell, Principal.
	Mabel Turner, Assistant.
	Charlotte C. Ingraham, "
	Fannie A. Greene, "
	Ida E. Morse, "
	Sarah D. Coleman, "
	Ella A. Greene, "
	Mary F. Augustus, "
	Ida W. Arnold, "
	Mary F. Monroe, "
	Margaret J. McLellan, "
ATWELL'S AVENUE,	Annie E. Cobb, Principal.
	Jane L. Holt, Assistant.
	Mary L. Anthony, "
	Florence A. Wheelwright, "
	Elizabeth McEntee, "
	Minnie W. Whitehead, "
	Ellen O'Brien, "
BEACON AVENUE,	Imogene A. Truman, Principal and Critic.
	Minnie L. Gallagher, Assistant.
	Mary E. Arnold, "
	Sarah F. Randall, "
	Ellen P. Brown, "
BELLEVUE AVENUE,	Fannie M. Otis, Principal.
	Amelia E. Berg, Assistant.
	Luella B. Snow, "
	Helen N. Allan, "
BENEFIT STREET,	Phebe E. Wilbur, Principal.
	Clara E. Craig, Assistant.
	Ella L. Sweeney, (Critic).
	Marion A. Puffer, Assistant.
	Sarah L. Sweet, "

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BENEFIT STREET,	Alice W. Case, Assistant.
	Della M. Hayden, "
	Ada B. Bragg, "
	Martha Stone, "
	Alice C. Kelly, "
BERLIN STREET,	Mary F. C. Padien, Principal.
	Julia A. Waterman, Assistant.
	Hattie M. Thornton, "
	Catherine A. M. Halliwell, "
BOURN STREET,	Lucy A. Metcalf, Principal.
	Nellie Branch, Assistant.
	Belle L. Lyons, "
	Rachel E. Walker, "
BRANCH AVENUE,	Agnes McIver, Principal.
	Anna V. Rice, Assistant.
	Catherine H. Burton, "
	Jennie Macready, "
CALIFORNIA AVENUE,	Mary I. Tillinghast, Principal and Critic.
	Maria L. Griffin, Assistant.
CAMP STREET,	Emma L. Dunham, Principal.
	Minnie S. Bosworth, Assistant.
	Mary E. Tempest, "
	Anna W. Capron, "
CARPENTER STREET,	Ella L. Phillips, Principal.
	Mary E. Like, Assistant,
	Mary E. Douglas, "
	Maud L. F. Sweet, "
CHALKSTONE AVENUE,	Margaret F. McOsker, Principal,
	Hannah S. Bowen, Assistant.
	Ida A. Howard, "
	Margaret A. Dawson, "
CHARLES STREET,	Eliza A. McGuinness, Principal and Critic.
	Mary V. McCabe, Assistant.
	Mary S. Houghton, "
	Sarah T. McCabe, "
	Mary A. Farrell, "
	Pauline E. Tingley, "
CHESTER AVENUE,	Elizabeth L. Towne, Principal.
	Rosa Martin, Assistant.

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CHESTER AVENUE,	Minnie Sayles, Assistant.
	Ruth A. Jacobs, "
COURTLAND STREET,	Florence M. Kennon, Principal.
	Sadie R. Doty, Assistant.
	Gertrude L. Huntington, "
	Ruth B. Hayes, "
COVELL STREET,	Minnie W. Mason, Principal and Critic.
	Elizabeth S. Holland, Assistant.
	Mary J. Dunne, "
EAST STREET.	Emma F. Armington, Principal.
	Katharine M. Dwyer, Assistant.
	Ada E. Mason, "
	M. Emily Cushing, "
	Annie F. Bartlett, "
	Rebecca R. Cushing, "
EDDY STREET,	Anella V. Remington, Principal.
	Maude E. Armstrong, Assistant.
	Lucy W. House, "
	Annie T. Turner, "
ELM STREET,	M. Matilda Miett, Principal and Critic.
	S. Francis Pike, Assistant.
	Florence M. James, "
	Abby C. Kelleher, "
	Alice C. Allen, "
ELMWOOD AVENUE,	Maria F. Dunham, Principal and Critic.
	Amelia S. Cory, Assistant.
	Eliza J. Hopkins, "
	Emma W. Pierce, "
	Mary L. Pratt, "
FEDERAL STREET,	Harriet C. Morton, Principal.
	Minnie J. Schubart, Assistant.
	Maud A. Munster, "
FRIENDSHIP STREET,	Eudora E. Joslin, Principal.
	Mary C. Wheeler, Assistant.
	Charlotte M. Bradford, "
	Marion E. Wheeler, "
GRAHAM STREET,	Elizabeth H. Kerr, Principal.
	Jennie T. Coffey, Assistant.
	Harriet E. Manning, "

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GREELEY STREET,	Annie E. Udell, Principal.
	Catherine V. Keogh, Assistant.
	Alice R. Collins, "
	Mary E. McCaffrey, "
HAMMOND STREET,	Phebe A. Andrews, Principal.
	Abbie P. Hopkins, Assistant.
	Harriet N. Lovett, "
	Carrie Payton, "
	Emmie D. Brown, "
	Agnes Wright, "
HARRIET STREET,	Mary H. Gaynor, Principal.
	Elizabeth J. A. Farrell, Assistant.
	Martha J. Marshall, "
	Ruth A. Jacobs, "
HARRIS AVENUE,	Katharine J. Murphy, Principal.
	Mary A. Hanley, Assistant.
	Esther L. Risk, "
	Helen E. Essex, "
HENDRICK STREET,	Albina J. Vallily, Principal.
	Elizabeth Holt, Assistant.
	Mabel H. Sessions, "
	Catharine E. McCormack, "
HIGHLAND AVENUE,	Abby V. Barney, Principal.
	Bertha M. Turner, Assistant.
	Abby W. Potter, "
	Alice A. Evison, "
JACKSON AVENUE,	Edith R. Allen, Principal and Critic.
	Florence M. Burt, Assistant.
	Ada Blinkhorn, "
	Bertha G. Salisbury, "
	Mary A. Trimble, "
JULIAN STREET,	Amy D. Hall, Principal.
	Margaret L. Hamill, Assistant.
	Mabel E. Jordan, "
	Etta M. Wildes, "
	May Martin, "
	Edith M. Lewis, "
MANNING STREET,	Ellen M. Hopkins, Principal.
	Mary V. McNerney, Assistant.
	M. Eliza Hurley, "
	Josephine Dillon, "

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MANTON AVENUE,	Agnes C. Gormley, Principal.
	Margaret E. Sullivan, Assistant,
	Florence A. Sullivan, "
	Maude Farnum, "
	Avis A. Hawkins, "
MONTAGUE STREET,	Jennie M. Macomb, Principal and Critic.
	Gertrude P. Prouty, Assistant.
	Helen S. Mann, "
MOUNT PLEASANT AVENUE,	Mary J. Kenney, Principal.
	Jane E. McGuirk, Assistant.
	Mary L. Moran, "
	Catherine J. McGrath, "
	Catherine A. Dennis, "
NIAGARA STREET,	Elizabeth J. D'Arcy, Principal.
	Caroline M. Johnson, Assistant.
	Elise T. Magnus, "
	Lillie I. Browne, "
PLAIN STREET,	Mary A. Remington, Principal and Critic.
	Louise F. Donahue, Assistant.
POTTER'S AVENUE,	Orianna E. Nichols, Principal.
	Eva H. Tillinghast, Assistant.
	Amelia P. Kimball, "
	Minnettie C. Beckwith, "
	Elizabeth Schaffer, "
	Mary A. Harris, "
	Phebe A. Rathbone, "
PUBLIC STREET,	Mary E. Lincoln, Principal.
	Annie L. Gorman, Assistant.
	Mary E. Johnson, "
	Elizabeth M. Feeley, "
PUTNAM STREET,	A. May Allen, Principal.
	Katherine Cushing, Assistant.
	Sarah L. Stetson (Critic).
	Mabel H. White, Assistant.
	Mary L. Young, "
	Theresa M. Sullivan, "
KING STREET,	Maria H. Wilbor, Principal.
	Ella C. Bradley, Assistant.
	Margaret M. Colton, "

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River Avenue,	R. Ella McLane, Principal.
	Mary T. Haran, Assistant.
	Margaret E. Tally, "
	Hattie D. Conley, "
Roger Williams Avenue,	Louise W. Pierce, Principal.
	Edithe L. Austin, Assistant.
	Lillian N. Manchester, "
	Helen G. Hazard, "
Ruggles Street,	Mary V. Lovett, Principal.
	Katharine A. Hogan, Assistant.
	Bertha F. Nolan, "
	Gertrude M. Keach, "
Slater Avenue,	Abbie A. Hathaway, Principal.
	Theresa G. Furlong, Assistant.
	Sabrina P. Prouty, "
Smith Street,	Margaret H. Brennan, Principal.
	Catherine F. Doran, Assistant.
	Mary G. Cooney, "
	Lizzie I. Fisher, "
	Geneveive B. Wallace, "
	Edythe K. S. Puffer, "
Somerset Street,	Ida M. Budlong, Principal and Critic.
	Mary B. Cram, Assistant.
	Bessie M. Blinkhorn, "
State Street,	Helen A. Reynolds, Principal.
	Mary G. Tasker, Assistant.
	Mary A. M. Pierce, "
	Caroline Maria Munnegle, Assistant.
Summer Street,	Elizabeth J. Cory, Principal.
	Julia D. Greene, Assistant.
	Jennie F. Work, "
	Emma F. Greene, "
	Alice L. Bowen, "
	M. Ethel Stone, "
Thayer Street,	Sarah A. Allen, Principal.
	Leoline N. Mowry, Assistant.
Thurber's Avenue,	Jessie E. Curtis, Principal.
	Lillian A. Potter, Assistant.
	Sarah W. Browning, "
	Martha J. Hawkins, "
	Marietta B. Billson, "
	Antonia F. L. Schubarth, "

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UNION AVENUE,	Annie C. Kenyon, Principal.
	Anna B. Richards, Assistant.
	Clara Pearl Dyer, "
	Margaret Healy, "
VEAZIE STREET,	Lizzie A. Martin, Principal.
	Emeline R. Crowell, Assistant.
	Annie V. Mahoney, "
	Florence E. Bowen, "
	Marion L. Cooper, "
	Enid M. Pierce, "
WARREN STREET,	Elizabeth S. Robinson, Principal.
	Fannie W. Robinson, Assistant.
	Anna C. Magnus, "
	Mary E. Lovegrove, "
WILLARD AVENUE,	Fannie B. Brightman, Principal and Critic.
	A. Teresa O'Donnell, Assistant.
	Ida E. Mather, "
WILLOW AVENUE,	Annie W. Field, Principal and Critic.
	Etta A. Paul, Assistant.
	Mary C. W. Bowen, "
	Emma M. Budlong, "
	Mary C. Lee, "
	Mary T. Burt, "

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Schools for Special Discipline and Instruction.

RHODA A. ESTEN, *Supervisor.*

Ashmount Street,	Emma R. Osler.
Harrison Street,	Katherine E. Taft.
	Mary T. B. Kelley.
	Edith S. Douglas.
Hospital Street,	Annie E. McCloy.
Meeting Street,	Ellen I. Gage,
	Florence L. Everett,
Mt. Pleasant,	Eliza F. Gorman.
	Mary C. Smith.
	Mary E. Fifield.
	Bertha H. Wallace.
Orms Street,	Clara F. Perry.
Pallas Street,	S. Ida Phillips.

School for Special Instruction.

Burnside Street,	E. Gertrude Tift.

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KINDERGARTENS.

BEACON AVENUE.

ALICE H. COGGESHALL, Principal.
CLARA B. COBB, Assistant.

CHARLES STREET.

EVELYN STAPLES, Principal.
MARY F. TOWLE, Assistant.

CALIFORNIA AVENUE.

MARY L. BUNKER, Principal.
ADELAIDE A. WHEELER, Assistant.

FEDERAL STREET.

EMILY A. LOWE, Principal.
LULU STELLA ELY, Assistant.

CHESTER AVENUE.

LUCY L. BLANCHARD, Principal.
BERTHA S. BAILEY, Assistant.

PUTNAM STREET.

ROSE L. KELLY, Principal.
ANNIE L. O'CONNOR, Assistant.

SMITH STREET.

ELIZABETH C. BAKER, Principal.
FRANCES R. KERN, Assistant.
CAROLYN T. SMITH, "

JULIAN STREET.

FANNIE P. HASKINS, Principal.
MARTHA A. FREEMAN, Assistant.

ALMY STREET.

JULIA PEPPER, Principal.
NELLIE C. READ, Assistant.

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WILLOW STREET.

LUCY F. COVELL, Principal.
CHARLOTTE E. RIPLEY, Assistant.

ARNOLD STREET.

EDITH W. BARTLETT, Principal.
WINIFRED M. RICE, Assistant.

BENEFIT STREET.

HELEN G. CAREY, Principal.
GENEVA A. COBB, Assistant.

POTTER'S AVENUE.

JESSIE M. BARTON, Principal.
FLORENCE P. SNOW, Assistant.

RING STREET.

ANNIE L. PRESTON, Principal.
A. GERTRUDE MAYNARD, Assistant.

MONTAGUE STREET.

ANNIE O. FOSTER, Principal.
JULIA P. WARD, Assistant.

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SPECIAL TEACHERS.

TEACHERS OF MUSIC.

EMORY P. RUSSELL, Director.

SARAH M. FARMER,
CORA I. HUDSON,
EMMA J. WILLIAMS,
LILIAN L. SIMESTER.

SUPERVISORS OF DRAWING.

HARRIETTE L. RICE, Supervisor,
MARY F. RICHARDS, Assistant.
JOSEPHINE L. HARTWELL, Assistant.
LEONA HOPE, Assistant.

COOKING SCHOOLS.

MEETING STREET — ANNIE R. RUGGLES, Principal.
BEACON AVENUE — LILLIE C. SMITH, Principal.
BRIDGHAM STREET — CORNELIA T. PECK, Principal.

TEACHERS OF SEWING.

ELLEN L. RICHARDS, Supervisor,
DENCY E. DAVENPORT,
ANN L. WATERMAN,
ALICE J. GOULD.

SUPERVISORS OF PHYSICAL TRAINING.

ELLEN LEGARDE, Supervisor.

MARIAN L. EARLE, Assistant.
FLORA A. FRASER, Assistant.

PERMANENT SUBSTITUTES.

EMELINE A. SAYLES,
ADELAIDE M. WATERMAN,
MARY A. LEE,
CAROLINE E. WORK,
ADELINE Y. ARMINGTON,
PHEBE A. CUTTING,
HARRIET R. GREENE,
ABBIE F. BUTLER,
JULIET A. ALLEN,
ELIZABETH PASSMORE

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TRAINING SCHOOLS.

GRAMMAR.

Academy Avenue, Emma J. Craig, Critic.
Peace Street, Ida M. Thomas, Critic.
Point Street, Georgianna M. Hall, Critic.

PRIMARY.

Africa Street, Della S. Freeman, Critic.
Beacon Avenue, Imogene A. Truman, Critic.
Benefit Street, Ella L. Sweeney, Critic.
California Avenue, Mary I. Tillinghast, Critic.
Charles Street, Eliza A. McGuinness, Critic.
Covell Street, Minnie W. Mason, Critic.
Elm Street, M. Matilda Miett, Critic.
Elmwood Avenue, Maria F. Dunham, Critic.
Montague Street, Jennie M. Macomb, Critic.
Jackson Avenue, Edith R. Allen, Critic.
Plain Street, Mary A. Remington, Critic.
Putnam Street, Sarah L. Stetson, Critic.
Somerset Street, Ida M. Budlong, Critic.
Willard Avenue, Fannie B. Brightman, Critic.
Willow Street, Annie W. Field, Critic.

PUPIL TEACHERS.

SECOND HALF-YEAR CLASS.

Laura H. Clark,
Alice M. Robinson,
Elizabeth Turbitt,
Sadie E. Barrett,
Florence E. Carpenter,
Mabel L. Fenner,
Stella B. Healey,
Margaret V. Mahoney,
Mary A. Pidge,
Ruth F. Wright,
Gertrude L. Jacobs,
Elizabeth F. Purkis,
Mary W. Smith,
Grace E. Baker,
Belle A. O. Bonneville,
Fannie B. Wilbur,
M. Josephine Healey,
Bertha S. Holloway,
Alice L. Mahy,
Mary L. Watson,
Elsie A. Hodgson.

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FIRST HALF-YEAR CLASS.

Estella C. Batchelder,
Isabella M. Connolly,
Mary L. Gilday,
Jennie F. McKenna,
Teresa A. O'Neil,
Mary G. Walsh,
Maude W. Hersey,
Maude L. McGlaulin,
Mary Campbell,
Emily M. Corcoran,
Mabel R. Lyon,
Catherine E. Nolan,
Deborah W. Steere,
Claudia L. Wood,
Gertrude I. Stetson.

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SCHOOL CALENDAR.

1897-98.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE.

On the last Friday evening of each month, excepting July and August, at eight o'clock, P. M.

Meeting for Organization of School Committee, on the first Tuesday in December.

TERMS.

First Term begins Monday, September 13, 1897.
First Term ends Friday, January 28, 1898.
Second Term begins Monday, February 7, 1898.
Second Term ends Friday, July 1, 1898.

QUARTERS.

First Quarter ends Friday, November 12, 1897.
Second Quarter ends Friday, January 28, 1898.
Third Quarter ends Friday, April 15, 1898.
Fourth Quarter ends Friday, July 1, 1898.

VACATIONS AND HOLIDAYS.

Rhode Island Institute of Instruction Recess, Thursday and Friday, October 28 and 29, 1897.

Thanksgiving Recess, Wednesday afternoon, Thursday and Friday, November 24, 25, and 26, 1897.

Christmas Recess of one week begins Saturday, December 18, 1897.

Winter Vacation of one week begins Saturday, January 29, 1898.

Washington's Birthday, February 22, 1898.

Spring Recess of one week begins Saturday, April 16, 1898.

Arbor Day. May 13, 1898.

Memorial Day, observed on May 30, 1898.

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EXAMINATIONS AND EXHIBITIONS.

Examinations of schools by sub-committees, Monday to Friday, December 13 to 17, 1897.

Regular Examinations of High Schools, Wednesday, January 26, 1898.

Regular Examinations of Primary Schools, Thursday, January 27, 1898.

Regular Examinations of Grammar Schools, Friday, January 28, 1898.

Annual Exhibitions of High Schools, Wednesday, June 29, 1898.

Annual Examinations of Primary Schools, Thursday, June 30, 1898.

Annual Exhibitions of Grammar Schools, Friday, July 1, 1898.

The Schools re-open on the second Monday in September, viz.: September 12, 1898.

SUPERINTENDENT OF JANITORS.

GARDINER R. WILCOX.

FLAG DAYS FOR THE PUBLIC SCHOOLS OF PROVIDENCE.

1. Term Days. (The first and last of each school term.)
2. Columbian Day. October 21.
3. Pilgrim Day. December 22.
4. Emancipation Day. January 1.
5. Inauguration Day of City Government. First Monday in January.
6. Lincoln Day. February 12. (Grand Army Flag Day.)
7. Washington Day. February 22.
8. Arbor Day. Second Friday in May.
9. Memorial Day. May 30.
10. Gaspee Day. June 10.
11. Flag Day. June 14.
12. Roger Williams Day. June 25.
13. Independence Day. July 4.
14. Special Days of Public Interest.

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SALARIES.*

Aldermen		$500 00
Assessors of Taxes, each		2,400 00
" " first assistant	30.69	per week.
" " second assistant	24.94	" "
" " third assistant	15.00	" "
" " fourth assistant	11.51	" "
" " fifth assistant	19.18	" "
Board of Canvassers and Registration		2,500 00
City Auditor		3,500 00
" first assistant	28.80	per week.
" second assistant	19.20	" "
" third assistant	16.00	" "
City Clerk		3,500 00
" first assistant	28.80	per week.
" second assistant	23.05	" "
" third assistant	15.35	" "
" fourth assistant	10.00	" "
Common Councilmen		300 00
City Engineer		4,500 00
City Gauger		fees.
City Messenger		1,600 00
City Registrar		fees.
City Sergeant		fees.
City Solicitor		6,000 00
" first assistant		3,000 00
" second assistant		2,000 00
City Treasurer		4,000 00
Deputy		2,500 00
One assistant		1,600 00
Three assistants		1,400 00
One assistant		1,200 00
One assistant		1,000 00
Two assistants		700 00
One assistant	50.00	per month.
One assistant	4.00	per week.
Clerk of Committees		1,800 00

*Where there is more than one holding a similar office, the salary is for each person.

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Clerk of Common Council	$1,000 00
One assistant to the Clerk of Common Council and Clerk of Committees	10.00 per week.
Clerk of Municipal Court	1,700 00
Two assistants	11.55 per week.
One assistant	10.00 " "
Elections:	
District Wardens and Clerks, for each day of an Election	10 00
Supervisors, for each day of an Election	7 00
Harbor Master	1,200 00
Inspector of Steam Boilers	fees.
Inspector of Buildings	1,700 00
" " " one assistant	25.00 per week.
" " " one clerk	16.00 " "
Inspector of Kerosene	fees.
Inspector of Milk	2,000 00
Inspector of Plumbing	1,500 00
" " " two assistant inspectors	21.00 per week.
" " " clerk	15.00 " "
Inspector of Provisions	1,200 00
Judge of the Municipal Court	2,000 00
Justices of the Police Court, each	1,000 00
License Commissioners	500 00
" " secretary	300 additional.
Mayor	5,000 00
Mayor's Clerk	800 00
Medical Inspector	1,200 00
North Burial Ground, Superintendent of	1,500 00
" " " " " one clerk	19.16 per week.
" " " " " one assistant clerk	2.00 per day.
Overseer of the Poor	1,400 00
Recorder of Deeds	1,400 00
" " " six assistants	11.50 per week.
Sealer of Weights and Measures	2,000 00
Superintendent of Health	2,000 00
" " " one clerk	9.00 per week.
Superintendent of Lights	1,700 00
Superintendent of Public Buildings	1,700 00
" " " " one assistant	25.00 per week.
Weigher at the Haymarket	fees.

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BRIDGE DEPARTMENT.

Superintendent of Point street bridge	$3.00 per diem.
Assistant Superintendent of Point street bridge	2.75 " "
Day Engineer of Point street bridge	2.50 " "
Night Engineer of Point street bridge	2.50 " "
Superintendent of Washington bridge and rent of house	2.00 " "
Engineer at Washington bridge	11.50 per week.
Night Watchman at Washington bridge	11.50 " "
Superintendent of Red bridge and occupancy of toll house	2.00 per diem.
Engineer of Red bridge	2.00 " "
Night Watchman of Red bridge	1.50 " "

FIRE DEPARTMENT.

Commissioners, each	$800 00
Clerk	1,600 00
Chief Engineer	2,000 00
Deputy Chief Engineer	1,500 00
Assistant Engineers, each	1,400 00
Superintendent of Fire Alarm	1,800 00
Foremen, each	3.50 per diem.
Assistant Foremen, each	3.15 " "
Enginemen, "	3.25 " "
Privates—First Grade, each	3.00 " "
" Second " "	2.67 " "
" Third " "	2.33 " "
" Fourth " "	2.00 " "
Call men, per annum	250 00

PARK DEPARTMENT.

Superintendent of Parks	28.80 per week
Clerk of Park Commissioners	13.45 " "
Curator of Museum at Roger Williams park	19.16 " "

POLICE DEPARTMENT.

Chief	2,250 00
Deputy Chief	1,550 00
Police Surgeon	1,200 00
Clerk	3.50 per diem.
Captains	3.50 " "
Lieutenants	3.25 " "
Sergeants	3.13 " "
Detectives	3.75 " "
Superintendent of Hacks	3.25 " "

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Patrolmen, after three years' consecutive service	$3.00	per diem.
Patrolmen, after eighteen months' consecutive service, and less than three years, not exceeding	2.75	" "
Patrolmen, after one year's service, and less than eighteen months, not exceeding	2.50	" "
Patrolmen	2.25	" "

PUBLIC WORKS.

Commissioner		$5,000 00
Secretary		2,700 00
Bookkeeper	34.00	per week.
Chief clerk	28.75	" "
One clerk	27.00	" "
One clerk	25.00	" "
Two clerks	19.16	" "
Two clerks	18.00	" "
One clerk	17.00	" "
One clerk	12.00	" "
Inspector of water fixtures	23.00	" "
Superintendent of highways	34 00	" "
Superintendent of pipe work	28.00	" "
Superintendent of meter work	23.00	" "
Pumping engineer, Hope station	23.00	" "
Superintendent at Pettaconsett station	23.00	" "
Pumping engineer at Pettaconsett station	21.25	" "
Assistant pumping engineer, Pettaconsett station	19.16	" "
Superintendent of sewer work	34.00	" "
Pumping engineer at Ernest street station	23.00	" "
Assistant pumping engineer at Ernest street station	21.25	" "

SCHOOL DEPARTMENT.

Superintendent of Public Schools	$4,000 00
Secretary of School Committee	1,200 00
" " Standing Committees of School Committee	600 00
Purchasing agent	1,200 00
Bookkeeper	750 00
Stenographic clerk	500 00
Purchasing agent, Committee on School Houses	600 00
Superintendent of Public School Janitors	1,000 00
Truant Officer	1,500 00
Truant Officer's clerk	400 00

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PUBLIC SCHOOL TEACHERS.

Principals of high schools	$2,500 00
First assistants in high schools	$1,800 00 to 2,000 00
Second " " " "	1,300 00 " 1,500 00
Third " " " "	1,000 00 " 1,200 00
Fourth " " " "	600 00 " 900 00
Teachers-in-training in the high schools	400 00
Principals in thirteen grammar schools	2,000 00
Principal in one grammar school	1,500 00
Assistants in grammar and primary schools:	
For their first year of service	350 00
For their second year	450 00
For their third and subsequent years the maximum allowed for the position to which they are appointed:	
Grades one to five	600 00
" six and seven	625 00
" eight	675 00
" nine	750 00
Principals of primary schools of six or more rooms	675 00
Other principals of primary schools	650 00
Critic teachers, grammar grade	1,000 00
" " primary grade (in addition to other salary)	75 00
Pupil teachers	250 00
Principals of kindergartens, two sessions	625 00
" " " one "	525 00
Assistants in "	300 00 to 500 00
First and second supervisors of grammar and primary schools	1,200 00
Third " " " " " "	1,000 00
Supervisor of schools for special discipline and instruction	1,200 00
Principals " " " " " " "	750 00
Assistants in " " " " " "	500 00 to 675 00
Director of music	2,000 00
Four assistants, music, each	700 00
Supervisor of drawing	1,500 00
Three assistant supervisors of drawing, each	1,000 00
Supervisor of penmanship	1,500 00
Supervisor of physical training	1,200 00
First assistant " "	800 00
Second " " "	600 00
Supervisor of sewing	900 00
Assistants in sewing, each	500 00
Principals of cooking schools	600 00 to 800 00

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PRESENT WARD AND DISTRICT BOUNDARIES.

FIRST WARD.

Beginning at the centre of the Cove, thence in a straight line to Steeple street, through Steeple, Thomas and Angell streets to the Seekonk river; thence south with the Seekonk river to the Providence river, and Providence river to the centre of the Cove.

The first voting district comprises all that part or portion of said ward which lies southerly of a line drawn from the Providence river through the centre of Doubloon and Williams street to the Seekonk river, and the second voting district comprises all the remaining part or portion of said ward.

SECOND WARD.

Beginning at the centre of the Cove, thence in a straight line to Steeple street, through Steeple, Thomas and Angell streets to the Seekonk river; thence north with the Seekonk river to the city line; city line to the Moshassuck river, Moshassuck river to the centre of the Cove.

The first voting district comprises all that part or portion of said ward lying southerly and easterly of a line drawn from the centre of the Cove Basin through the centre of the Moshassuck river to Smith street, the centre of Smith street to North Main street to Star street, the centre of Star street to Benefit street, the centre of Benefit and North Main streets to Doyle avenue, the centre of Doyle avenue to East avenue, the centre of East avenue to Rochambeau avenne, the centre of Rochambeau avenue and Swan Point road to the division line between the Swan Point Cemetery and the estate of the Butler Hospital for the Insane, and the said division line to the Seekonk river, and the second voting district comprises all the remaining part or portion of said ward.

THIRD WARD.

Beginning at the junction of the Moshassuck river with the city line, thence with the Moshassuck river to Smith street, thence through Smith and Candace streets, Douglas avenue and Admiral street to city line, thence on city line to Moshassuck river.

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The first voting district comprises all that part or portion of said ward lying easterly of a line drawn from the centre of the Moshassuck river through the centre of Stevens street to Charles street, and through the centre of Charles street to the boundary line between said city and the town of North Providence; the second voting district comprises all that part or portion of said ward bounded by the centre of the Moshassuck river from Stevens street to Smith street, the centre of Smith street to Candace street, the centre of Candace street to Douglas avenue, the centre of Douglas avenue to Admiral street, the centre of Admiral street to Hawkins street, the centre of Hawkins street to Charles street, and the centre of Charles and Stevens streets to the Moshassuck river at the point of beginning; the third voting district comprises all the remaining part or portion of said ward.

FOURTH WARD.

Beginning at the centre of the Cove, thence in a straight line to Moshassuck river, through said river to Smith street, through Smith and Holden streets to Woonasquatucket river, through Woonasquatucket river to Acorn street, through Acorn street, Harris avenue, Dean, Westminster, Summer and Broad streets, Beacon avenue and Friendship street to Providence river, up Providence river to the centre of the Cove.

The first voting district comprises all that part or portion of said ward lying northwesterly of a line drawn from Dean street through the centre of Washington street and Exchange place to the Providence river, and the second voting district comprises all the remaining part [or portion of said ward.

FIFTH WARD.

Beginning at Providence river and Friendship street, through Friendship street, Beacon avenue, Broad, Elmwood avenue, West Friendship, Friendship and Blackstone streets to Providence river, with Providence river north to Friendship street.

The first voting district comprises all that part or portion of said ward which lies easterly and northerly of a line drawn from Blackstone street through the centre of Plain street to Friendship street, and the second voting district comprises all the remaining part or portion of said ward.

SIXTH WARD.

Beginning at Providence river on Blackstone street, through Blackstone, Friendship, West Friendship and Elmwood avenue, Princeton avenue and Broad street to city line; on said line to Providence river, thence around Starvegoat Island, up said river to Blackstone street.

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The first voting district comprises all that part or portion of said ward lying northerly of a line drawn from Broad street through the centre of Oxford street to the Providence river, and the second voting district comprises all the remaining part or portion of said ward.

SEVENTH WARD.

Beginning at city line on Broad street, through Broad street, Princeton avenue, Elmwood avenue, Bridgham and Cranston streets to city line, south and east on said line to Broad street.

The first voting district comprises all that part or portion of said ward lying northerly and westerly of a line drawn from the junction of Elmwood avenue and Sprague street, through the centre of Sprague street to Dexter street, through the centre of Dexter street to Potter's avenue, through the centre of Potter's avenue to Jackson avenue, through the centre of Jackson avenue to Beckwith street, thence deflecting and running southerly to the shore of Mashapaug pond at the mouth of Spectacle brook, thence deflecting and running southerly along the shore of said Mashapaug pond to a line drawn in continuation of the centre line of Howe street, thence through the centre of Howe street to Fenner avenue; and the second voting district comprises all the remaining part or portion of said ward.

EIGHTH WARD.

Beginning at the city line on Cranston street, through Cranston, Bridgham, Broad, Summer, Westminster, Knight, Carpenter, and Marshall streets, Broadway and Westminster street to city line, south on city line to Cranston street.

The first voting district comprises all that part or portion of said ward lying southerly and westerly of a line drawn from the junction of Parade and Cranston streets through the centre of Chapin avenue to Sycamore street, and the centre of Sycamore street and Baker avenue to Broadway, and the second voting district comprises all the remaining part or portion of said ward.

NINTH WARD.

Beginning at city line on Westminster street, through Westminster street, Broadway, Marshall, Carpenter, Knight, Westminster, Dean streets, Harris avenue and Acorn street to Woonasquatucket river; westerly through Woonasquatucket river to city line, on said line to Westminster street.

The first voting district comprises all that part or portion of said ward bounded by the centre of the Woonasquatucket river from Atwell's avenue to the easterly line of the Town of Johnston, the said line of the Town of Johnston to Westminster street, the centre of Westminster street and

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Broadway to Vinton street, the centre of Vinton to Atwell's avenue, the centre of Atwell's avenue to the Woonasquatucket river at the point of beginning, and the second voting district comprises all the remaining part or portion of said ward.

TENTH WARD.

Beginning at city line on Admiral street, through Admiral street, Douglas avenue, Candace, Smith, and Holden streets to Woonasquatucket river, through Woonasquatucket river to city line, on said line to Admiral street.

The first voting district comprises all that part or portion of said ward lying southerly and westerly of a line drawn westerly from the Woonasquatucket river through the centre of Atwell's and Manton avenues to Sisson street, northerly through the centre of Sisson street and in range thereof to Chalkstone avenue, westerly through the centre of Chalkstone avenue to Rowley street, and northerly through the centre of Rowley street and in range thereof to the city line; the second voting district comprises all that part or portion of said ward bounded by the Woonasquatucket river from Atwell's avenue to the range of the centre of Cornell street, the said range of the centre of Cornell street and the centre of Cornell to Regent avenue, the centre of Regent avenue to Lisbon street, the centre of Lisbon street and the range thereof to the brook or water course which crosses River avenue between Smith street and Chalkstone avenue, the centre of said brook or water course to Samoset avenue, the centre of Samoset avenue to Chalkstone avenue, the centre of Chalkstone avenue to the range of the centre of Sisson street, the said range of the centre of Sisson street and the centre of Sisson street to Manton avenue, the centre of Manton avenue and Atwell's avenue to the Woonasquatucket river at the place of beginning, and the third voting district comprises all the remaining part or portion of said ward.

ANNEXATION.

Portion of Town of Cranston annexed to City in 1868, now a portion of the Sixth and Seventh Wards. (Formerly the Old Ninth Ward.)

Portion of Town of North Providence annexed to City in 1874. (Tenth Ward.)

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POPULATION

OF THE TOWN AND CITY OF PROVIDENCE FROM 1708 TO 1895.

1708.....1,446	1810.....10,071	1878.....99,682
1730.....3,916	1820.....11,767	1880.....104,852
1748.....3,452	1830.....16,836	1883.....116,755
1755.....3,159	1840.....23,172	1885.....118,070
1774.....4,321	1850.....41,513	1890.....132,146*
1776.....4,355	1860.....50,666	1893.....148,944†
1782.....4,310	1865.....54,595	1895.....145,472‡
1790.....6,380	1870.....68,904	
1800.....7,614	1875.....100,675	

* United States Census. † City Census. ‡ State Census.

Table showing the voters and population in each ward of the City of Providence:

WARDS.	Voters, 1898.	Census, 1895.
First ward	2,051	14,632
Second ward	2,301	13,889
Third ward	3,134	17,513
Fourth ward	1,291	8,291
Fifth ward	1,952	13,484
Sixth ward	2,444	15,559
Seventh ward	2,390	13,088
Eighth ward	1,980	13,389
Ninth ward	1,948	14,605
Tenth ward	2,929	21,022
Total	22,420	145,472

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VALUATION AND TAXATION.

From 1832 to 1898.

Year.	Assessors' Valuation.			Rate of Tax.	Am't of Tax.
	Real Estate.	Personal Est.	Total.		
1832...	$6,838,300	$5,282,900	$13,121,200	$3 30 per $1,000	$40,000 00
1833...	7,047,900	5,570,300	12,618,200	3 17 " "	40,000 00
1834...	7,257,500	5,687,400	12,944,900	3 09 " "	40,000 00
1835...	7,414,100	5,919,233	13,333,333	3 00 " "	40,000 00
1836...	7,646,900	6,548,600	14,195,583	3 17 " "	45,000 00
1837...	7,953,900	6,562,200	14,516,130	3 10 " "	45,000 00
1838...	8,293,500	7,091,116	15,384,616	3 25 " "	50,000 00
1839...	8,577,300	7,364,729	15,942,290	3 45 " "	55,000 00
1840...	8,976,800	8,218,900	17,195,700	3 78 " "	65,000 00
1841...	9,408,700	9,109,800	18,518,500	3 78 " "	70,000 00
1842...	9,757,100	9,161,819	18,918,919	3 70 " "	70,000 00
1843...	11,706,100	10,033,100	21,739,200	3 05 " "	75,000 00
1844...	12,167,200	10,328,300	22,495,500	3 60 " "	80,983 80
1845...	12,977,500	10,731,600	23,729,100	3 80 " "	90,170 58
1846...	14,676,900	10,916,300	25,593,200	4 00 " "	102,372 80
1847...	15,637,700	11,602,200	27,239,900	4 50 " "	122,579 05
1848...	16,637,700	11,878,300	28,516,000	4 50 " "	128,322 00
1849...	17,959,600	12,820,700	30,780,300	5 00 " "	153,901 50
1850...	17,832,700	14,126,900	31,959,600	5 30 " "	169,385 85
1851...	18,490,600	14,288,700	32,779,300	5 30 " "	173,730 29
1852 ..	20,005,200	13,696,100	33,701,300	5 30 " "	178,616 89
1853...	22,464,900	14,814,400	37,279,300	5 30 " "	197,580 29
1854...	33,598,600	15,301,100	48,928,700	5 60 " "	274,000 72
1855...	36,188,097	20,108,200	56,296,297	6 75 " "	380,000 00
1856...	36,487,116	21,577,400	58,064,516	7 75 " "	450,000 00

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VALUATION AND TAXATION. (CONTINUED.)

YEAR.	ASSESSORS' VALUATION.			Rate of Tax.	Am't of Tax.
	Real Estate.	Personal Est.	Total.		
1857...	$37,799,600	$20,948,200	$57,741,800	$7 40 per $1,000	$427,333 72
1858...	36,316,200	19,517,000	55,833,200	8 10 " "	452,248 92
1859...	36,666,600	19,858,600	56,526,200	8 00 " "	452,209 60
1860...	37,089,800	21,042,000	58,131,800	5 60 " "	325,538 08
1861...	36,798,600	20,065,200	56,863,200	5 80 " "	329,807 56
1862...	37,149,000	23,969,300	61,118,300	6 50 " "	397,268 95
1863...	37,701,000	28,714,800	66,415,800	6 80 " "	451,627 44
1864...	38,961,900	41,037,900	79,999,800	7 00 " "	559,998 60
1865...	39,479,500	41,084,800	80,564,300	9 80 " "	789,513 12
1866...	40,250,800	43,198,000	83,448,800	9 40 " "	784,418 72
1867...	45,027,200	40,017,200	85,044,400	10 80 " "	918,479 52
1868...	49,107,900	43,618,100	92,726,000	12 00 " "	1,112,712 00
1869...	50,909,800	42,179,100	93,088,900	12 20 " "	1,135,684 58
1870...	52,511,800	40,565,100	93,076,900	13 50 " "	1,256,538 15
1871...	64,995,800	39,565,700	104,561,500	13 50 " "	1,411,580 25
1872...	69,926,400	40,160,700	110,087,100	13 50 " "	1,486,175 85
1873...	71,037,500	41,443,900	112,481,400	13 50 " "	1,518,498 90
1874...	81,040,300	42,642,500	123,682,800	14 50 " "	1,793,400 60
1875...	82,862,900	39,091,800	121,954,700	14 50 " "	1,768,343 15
1876...	84,981,000	36,084,200	121,065,200	14 50 " "	1,755,445 40
1877...	85,789,800	32,085,000	117,874,800	14 50 " "	1,709,184 60
1878...	86,341,100	30,699,400	117,040,500	14 50 " "	1,697,087 25
1879...	86,816,100	28,765,600	115,581,700	14 00 " "	1,618,143 80
1880...	88,012,100	27,908,900	115,921,000	13 50 " "	1,564,933 50
1881...	87,788,600	28,413,800	116,201,800	14 00 " "	1,626,825 20
1882...	88,987,900	30,208,300	119,196,200	14 50 " "	1,728,344 90

*The ninth ward was annexed to the city in 1868. †The tenth ward was annexed to the city in 1874.

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VALUATION AND TAXATION. (CONTINUED.)

YEAR.	ASSESSORS' VALUATION.			Rate of Tax.	Am't of Tax.
	Real Estate.	Personal Est.	Total.		
1883...	$90 143,400	$31,722,000	$121,865,400	$14 50 per $1,000	$1,767,048 30
1884...	91,642,100	30,854,400	122,496,500	14 50 " "	1,776,199 25
1885...	92,887,400	31,314,600	124,202,000	14 50 " "	1,800,929 00
1886...	97,975,900	32,281,200	130,257,400	14 00 " "	1,823,603 60
1887...	99,779,580	34,267,680	134,047,260	14 50 " "	1,943,685 27
1888...	100,924,720	35,837,840	136,762,560	15 00 " "	2,051,438 40
1889...	102,850,100	37,627,240	140,477,340	15 00 " "	2,107,160 10
1890...	104,684,440	35,932,620	140,617,060	15 00 " "	2,109,255 90
1891...	109,428,720	37,473,120	146,901,840	15 00 " "	2,203,527 60
1892...	114,656,860	40,885,660	155,542,520	15 00 " "	2,333,137 80
1893...	119,001,700	40,810,860	159,812,560	16 00 " "	2,557,000 96
1894...	126,463,800	40,800,400	167,264,200	16 00 " "	2,676,227 20
1895...	129,438,060	40,346,500	169,784,560	16 00 " "	2,716,552 96
1896...	133,296,200	40,936,300	174,232,500	16 50 " "	2,874,836 25
1897...	135,805,460	38,237,020	174,042,480	16 50 " "	2,871,700 92

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FUNDED DEBT, SEPTEMBER 30, 1897.

Bonds due June 1, 1899, for the City Hall.....	$200,000 00	
Bonds due same date for sewer construction...	400,000 00	
Bonds due July 1, 1899 and 1900, for public improvements.....	596,000 00	
Bonds due May 1, 1937, for public improvements.	640,000 00	
Bonds due July 1, 1900, for water works.....	4,000,000 00	
Bonds due July 1, 1906, for water works.....	1,500,000 00	
Bonds due September 1, 1916, for water works..	483,000 00	
Bonds due April 1, 1923, for water works.....	817,000 00	
Bonds due June 1, 1926, for water works.	200,000 00	
Bonds due April 1, 1927, for water works.....	250,000 00	
Special highway loan.....	160,000 00	
Bonds due July 1, 1909, for Davis estate.....	75,000 00	
Bonds due July 1, 1911, for school loan.....	300,000 00	
Bonds due May 1, 1925, for school loan.....	300,000 00	
Bonds due April 1, 1927, for school loan.....	500,000 00	
Bonds due July 1, 1921, for sewer loan.....	1,125,000 00	
Bonds due March 1, 1922, for sewer construction.	500,000 00	
Bonds due April 1, 1923, for sewer construction.	500,000 00	
Bonds due May 1, 1925, for sewer construction.	800,000 00	
Bonds due April 1, 1927, for sewer construction.	300,000 00	
Bonds due June 1, 1926, for sewer construction.	500,000 00	
Bonds due March 1, 1922, for public parks.....	500,000 00	
Bonds due May 1, 1947, for public parks.....	674,000 00	
Bonds due May 1, 1924, for highway loan.....	1,200,000 00	
Bonds due April 1, 1927, for highway loan.....	500,000 00	
		$17,020,000 00

FLOATING DEBT, SEPTEMBER 30, 1897.

Sewer construction.....	$125,000 00	
Notes issued to pay State tax in June, 1892.....	151,692 95	
Davis park improvement.....	34,000 00	
School houses and lots loan account.....	75,000 00	
Blackstone park improvement.....	15,000 00	
Highways	65,000 00	
Casino, Roger Williams park.....	14,000 00	
Central Office fire alarm system.....	1,000 00	
Weybosset bridge and river walls.....	75,000 00	
		$555,692 95

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SINKING FUNDS SEPTEMBER, 30, 1897.

To redeem the City Hall and sewer loan due in 1899	$567,461 05	
To redeem the loan for public improvements due in 1899	381,359 42	
To redeem the loan for public improvements due in 1900	114,913 08	
To redeem the water loan due in 1900	987,467 16	
To redeem the water loan due in 1906	244,688 48	
To redeem the water loan due in 1916	95,997 97	
To redeem the water loan due in 1923	58,274 01	
To redeem the water loan due in 1926	30,178 01	
To redeem the water loan due in 1927	36,001 07	
To redeem the Davis estate loan due in 1909	21,779 79	
To redeem the school loan due in 1911	96,199 26	
To redeem the school loan due in 1925	56,225 06	
To redeem the school loan due in 1927	69,919 32	
To redeem the sewer loan due in 1921	174,707 32	
To redeem the sewer loan due in 1922	107,942 76	
To redeem the sewer loan due in 1923	76,608 63	
To redeem the sewer loan due in 1925	133,177 23	
To redeem the sewer loan due in 1926	80,646 28	
To redeem the sewer loan due in 1927	46,003 89	
To redeem the loan due in 1922 for the purchase of land for parks	108,400 28	
To redeem the highway loan due in 1924	232,934 93	
To redeem the highway loan due in 1927	77,989 96	
		$3,798,874 76

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FINANCIAL CONDITION OF THE CITY, SEPT. 30, 1897.

Total amount of funded debt, Sept. 30, 1897....	$17,020,000 00	
Total amount of floating debt on same date....	555,692 95	
Total gross debt.....		$17,575,692 95
Total amount of sinking funds.....	$3,798,874 76	
Cash in the treasury *for the redemption of the city debt*.....	23,254 79	3,822,129 55
Net amount of city debt.....		$13,753,563 40

Increase in the Net City Debt for the Fiscal Year Ending September 30, 1897.

Net amount of city debt, September 30, 1896.....	$13,233,688 51
Net amount of city debt, September 30, 1897.....	13,753,563 40
Increase in net debt.....	$519,874 89

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MEMBERS OF THE

CITY GOVERNMENT

AND OFFICERS OF THE

CITY OF PROVIDENCE,

FROM 1832 TO 1898.

The term of office was from June to June until 1873, when the term was extended to January, and then from January to January.
The asterisk denotes the deceased.

MAYORS.

*SAMUEL W. BRIDGHAM, from June 1832, to December 31, 1840. Died in office.
*THOMAS M. BURGESS, from February 2, 1841, to June, 1852.
*AMOS C. BARSTOW, from June, 1852, to June, 1853.
*WALTER R. DANFORTH, from June, 1853, to June 1854.
*EDWARD P. KNOWLES, from June, 1854, to June, 1855.
*JAMES Y. SMITH, from June, 1855, to June 29, 1857.
*WILLIAM M. RODMAN, from June 29, 1857, to June, 1859.
JABEZ C. KNIGHT, from June, 1859, to June, 1864.
*THOMAS ARTHUR DOYLE, from June, 1864, to June, 1869; from June, 1870, to January, 1881; and from January, 1884, to June 9, 1886. Died in office.
*GEORGE L. CLARKE, from June, 1869, to June, 1870.
*THOMAS ARTHUR DOYLE. See above.
WILLIAM S. HAYWARD, from January, 1881, to January, 1884.
*THOMAS ARTHUR DOYLE. See above.
*†GILBERT F. ROBBINS, from January, 1887, to January, 1889.
HENRY R. BARKER, from January, 1889, to January, 1891.
CHARLES SYDNEY SMITH, from January, 1891, to January, 1892.
WILLIAM KNIGHT POTTER, from January, 1892, to January, 1894.
FRANK FULLER OLNEY, from January, 1894, to January, 1896.
EDWIN D. McGUINNESS, from January, 1896, to January, 1898.
WILLIAM C. BAKER, from January, 1898. Now in office.

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†Acting Mayor from June 9, 1886, to January 3, 1887.

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PRESIDENTS OF THE BOARD OF ALDERMEN.

(Office created February 5, 1863.)

*James S. Ham	from March,	1863,	to June,	1864.
*John D. Jones	" June,	1864,	"	1868.
*Henry J. Angell	" "	1868,	"	1869.
George P. Tew	" "	1869,	"	1871.
*Amos W. Snow	" "	1871,	"	1873.
Addison Q. Fisher	" "	1873,	to Jan.,	1878.
William S. Hayward	" Jan.,	1878,	"	1881.
Robert E. Smith	" "	1881,	"	1882.
Henry R. Barker	" "	1882,	"	1883.
*†Gilbert F. Robbins	" "	1883,	"	1887.
Charles F. Sampson	" "	1887,	"	1890.
Robert E. Smith	" "	1890,	"	1891.
*Edward G. Burrows	" "	1891,	"	1893.
Daniel R. Ballou	" "	1893,	"	1895.
Arthur H. Watson	" "	1895,	"	1896.
Robert B. Little	" "	1896,	"	1898.
Ira Winsor	" "	1898.	Now in office.	

CITY CLERKS.

*Richard M. Field	from June 4, 1832,	to Dec. 1, 1843.	Died in office.
*Albert Pabodie	" Dec. 7, 1843,	to Jan. 2, 1860.	Died in office.
Samuel W. Brown	" Jan. 5, 1860,	to Jan. 6, 1879.	
Henry V. A. Joslin	" Jan. 6, 1879,	to June 2, 1890.	Resigned.
William E. Clarke	" June 2, 1890.	Now in office.	

PRESIDENTS OF THE COMMON COUNCIL.

*George Baker	from June,	1832,	to June,	1834.
*George Curtis	"	1834,	"	1837.
*George W. Jackson	"	1837,	"	1839.
*Thomas B. Fenner	"	1839,	"	1842.
*Stephen T. Olney	"	1842,	"	1844.
*William S. Patten	"	1844,	"	1845.
*James C. Hidden	"	1845,	"	1847.
*John J. Stimson	"	1847,	"	1848.
*Edward S. Williams	"	1848,	"	1849.

†Acting Mayor from June 9, 1886, to January 3, 1887.

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*Christopher C. Potter	from June, 1849,	to	June, 1850.	
*Thomas P. Shepard	" 1850,	"	1851.	
*Walter Paine, Jr.	" 1851,	"	1852.	
*Wingate Hayes	" 1852,	"	1854.	
*Thomas A. Doyle	" 1854,	"	1855.	
*Charles T. Robbins	" 1855,	"	1856.	
*Stephen Waterman	" 1856,	"	1860.	
John N. Francis	" 1860,	"	1863.	
William Binney	" 1863,	"	1871.	
Nelson W. Aldrich	" 1871,	"	1873.	
*Nicholas Van Sylck	" 1873,	to	Aug. 10, 1874.	
Horatio Rogers	Aug. 10, 1874,	to	Jan., 1875.	
Francis Colwell, Jr.	Jan., 1875,	"	1876.	
*Abner J. Barnaby	" 1876,	"	1877.	
Charles P. Robinson	" 1877,	"	1879.	
Henry R. Barker	" 1879,	"	1880.	
George H. Burnham	" 1880,	"	1881.	
J. Carter Brown Woods	" 1881,	"	1885.	
Rathbone Gardner	" 1885,	"	1887.	
Augustus S. Miller	" 1887,	"	1888.	
Arthur W. Dennis	" 1888,	"	1890.	
Arthur H. Watson	" 1890,	"	1893.	
Clinton D. Sellew	" 1893,	"	1896.	
John E. Kendrick	" 1896,	"	1898.	
Joseph H. Kendrick	" 1898.	Now in office.		

CLERKS OF THE COMMON COUNCIL.

(Clerk of Committees created February 17, 1890, requiring Clerk of Common Council to act as such.)

*Thomas B. Fenner	from June 4, 1832,	during organization.	
*Allen O. Peck	" June, 1832,	to June, 1834.	
*Albert G. Greene	" June, 1834,	to Feb. 11, 1867.	Resigned.
Joshua M. Addeman	" Feb. 25, 1867,	to January 2, 1882.	
Daniel F. Hayden	" Jan. 2, 1882.	Now in office.	

CITY TREASURERS.

*Stephen Tillinghast	from June, 1832,	to June 15, 1840.	Resigned.
*Robert Knight	" June 15, 1840,	to July 27, 1840.	Resigned.
*Benjamin Clifford	" July 27, 1840,	to Nov. 22, 1843.	Resigned.

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*Stephen Tripp.....from Nov. 27, 1843, to Feb. 14, 1849. Died in office.
*George W Hall..... " Feb. 19, 1849, to March 11, 1850. Resigned.
*Esek Aldrich..... " March 11, 1850, to June, 1855.
*Marinus W. Gardiner... " June, 1855, to Dec. 1, 1862.
*Joseph C. Peckham..... " Dec. 2, 1862, to Aug. 20, 1868. Died in office.
Benjamin Tripp..... " Aug. 24, 1868, to Jan. 13, 1890.
Daniel L. D. Granger.... " Jan. 13, 1890. Now in office.

CITY AUDITORS.

(Office created August 9, 1847.)

*Stephen T. Olney.....from Aug. 9, 1847, to June, 1850.
*George B. Jastram..... " June, 1850, to June, 1854.
*John J. Paine..... " June, 1854, to June, 1863.
*Henry A. Webb..... " June, 1863, to June 8, 1863.
*James M. Cross..... " June 8, 1863, to Feb. 10, 1887. Died in office.
†Edward Field, 2d, (*pro tem*)..... " Feb. 14, 1887, to March 24, 1887.
*William D. Nisbet..... " Mar. 24, 1887, to Aug. 20, 1894. Died in office.
†Louie R. Magoon, (*pro tem*)..... " Aug. 20, 1894, to Jan. 17, 1895.
Philip S. Chase..... " Jan. 17, 1895. Now in office.

CITY SOLICITORS.

(Office created June 15, 1853.)

*James M. Clarke.....from June 22, 1853, to Aug. 23, 1854. Resigned.
Willard Sayles..... " Jan. 29. 1855, to June, 1855.
*James M. Clarke..... " June, 1855, to June, 1863.
Benjamin N. Lapham.. " June, 1863, to June, 1865.
Francis Colwell, Jr.... " June, 1865, to June, 1866.
*John P. Knowles..... " June, 1866, to Sept., 1867. Resigned.
*Charles H. Parkhurst.. " June, 1868, to June, 1874.
*Nicholas Van Slyck.... " Aug. 10, 1874, to March 3, 1893. Died in office.
Francis Colwell..... " May, 1892. Now in office.

CITY MARSHALS.

*Henry G. Mumford.....from June, 1833, to June, 1845.
*Jabez J. Potter..... " 1845, " 1848.
*Daniel K. Chaffee..... " 1848, " 1854.
*William H. Hudson..... " 1854, " 1859.
*Thomas W. Hart..... " 1859, " 1866.

(Office abolished in 1866, and duties transferred to the Chief of Police.)

† Appointed by the Mayor.

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CHIEF OF POLICE.

(Office created June, 1866.)

Nelson Viall	from June,	1866, to June, 1867.		
Albert Sanford	" June,	1867, to June, 1869.		
*William Knowles	" June,	1869, to June, 1870.		
*Thomas J. A. Gross	from June,	1870, to Aug. 2, 1871.		Died in office.
John M. Knowles	" Aug. 14,	1871, to Sept. 13, 1877.		Resigned.
*William H. Ayer	" Sept. 13,	1877, to May 4, 1879.		Died in office.
Charles H. Hunt	" May 22,	1879, to Nov. 1, 1880.		Resigned.
Benjamin H. Child	" Jan.	1881, to Jan. 16, 1896.		
Reuben R. Baker	" Jan. 16, 1896.	Now in office.		

CITY SERGEANTS.

*Edward Harwood	from June, 1832,	to April 10, 1848.	
*James C. Sheridan	"	1848, to June, 1861.	
Edward S. Rhodes	"	1861.	Now in office.

CITY MESSENGERS.

(Office created September 1, 1854.)

*James C. Sheridan	from Sept. 18, 1854,	to June, 1861.	
Edward S. Rhodes	" June,	1861.	Now in office.

OVERSEERS OF THE POOR.

*Joshua Rathbup	from June,	1832, to June, 1836.	
*William F. Greene	from June, 1836,	to Oct. 16, 1854.	Resigned.
*Stephen A. Phillips	from Oct. 16, 1854,	to June, 1858.	
*George W. Wightman	" June,	1858, to Jan., 1890.	
Matthew J. Cummings	" Jan.,	1890.	Now in office.

SURVEYORS OF HIGHWAYS.

*William T. Grinnell	from June,	1832, to Aug. 27, 1832.	
*Dexter Thurber	" June,	1832, to Aug. 27, 1832.	
*Pardon Mason, (for west side)	" Aug. 27,	1832, to June, 1833.	
*Warren Batcheller, (for east side)	" Aug. 27,	1832, to June, 1833.	
*Henry G. Mumford	" June,	1833, to June, 1856.	
*William Batcheller	" June,	1856, to June, 1858.	
*Samuel B. Durfee	" June,	1858, to June, 1866.	
*Thomas W. Hart	" June,	1866, to April 10, 1872.	

(Office abolished April 10, 1872. Powers and duties transferred to the Highway Commissioners.)

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HIGHWAY COMMISSIONERS.

Samuel L. Blaisdell.....	from Feb. 7, 1872, to May 26, 1876.		Resigned.
*Charles Anthony.....	" Feb. 7, 1872, to May 24, 1878.		
*Gideon Bradford.....	" Feb. 7, 1872, to Nov. 6, 1874.		Died in office.
Lemuel S. Harris.....	" Jan., 1875, to Jan., 1879.		
*Thomas W. Hart.....	" Feb. 7, 1877, to Nov. 5, 1880.		
Obadiah Brown.....	" May 24, 1878, to Nov. 5, 1880.		
George E. Thompson....	" Jan., 1879, to Nov. 5, 1880.		

(Office abolished April 15, 1880. Powers and duties transferred to the Board of Public Works.)

WATER COMMISSIONERS.

(Office created September 20, 1869.)

*Joseph J. Cooke.....	from Sept. 27, 1869, to Nov. 1, 1876.		
Charles E. Carpenter....	" Sept. 27, 1869, to Nov. 1, 1876.		
*Moses B. Lockwood.....	" Sept. 27, 1869, to May 13, 1872.		Died in office.
William Corliss.....	" May 23, 1872, to Nov. 1, 1876.		
*Lodowick Brayton.....	" Nov. 1, 1876, to Nov. 1, 1880.		
Nathaniel F. Potter, Jr.	" Nov. 1, 1876, to Nov. 5, 1880.		
*Henry L. Parsons.....	" Jan. 18, 1877, to Nov. 5, 1880.		

(Office abolished April 15, 1880. Powers and duties transferred to the Board of Public Works.)

BOARD OF PUBLIC WORKS.

(Office created April 15, 1880.)

*Samuel B. Swan	from Nov. 5, 1880, to March, 1883.		
Obadiah Brown.....	" Nov. 5, 1880, to March, 1882.		
*Charles Anthony.....	" March, 1882, to March, 1884.		
Frederick E. Anthony..	" March, 1883, to March, 24, 1884.		Resigned.
Clinton D. Sellew.....	" March, 1884, to Feb. 11, 1889.		
Charles E. Carpenter....	" May 15, 1884, to Feb. 11, 1889.		
Charles H. Hunt.....	" Feb. 15, 1886, to Feb. 11, 1889.		

(Office abolished February 11, 1889. Powers and duties transferred to the Commissioner of Public Works.)

COMMISSIONERS OF PUBLIC WORKS.

(Office created February 11, 1889.)

*John A. Coleman.....	from Feb. 11, 1889, to March, 1891.	
Robert E. Smith.....	" March, 1891.	Now in office.

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CITY ENGINEERS.

(Office created May 29, 1869.)

Charles E. Paine.....from June, 1869, to Feb. 5, 1877.
Samuel M. Gray..... " Feb. 5, 1877, to May 5, 1890.
J. Herbert Shedd..... " May 5, 1890, to May 3, 1897.
Otis F. Clapp..... " May 3, 1897. Now in Office.

ASSESSORS OF TAXES.

(Office created March 8, 1866.)

*Henry A. Webb.....from June, 1866, to June, 1885.
*Christopher T. Keith..... " 1866, " 1881.
*George W. Ham..... " 1866, to June 6, 1869. Died in office.
*James C. Hidden..... " 1869, " 1883.
*Charles Dudley..... " 1881, " 1886.
George P. Tew..... " 1883, to Feb. 5, 1895.
Elisha H. Rhodes..... " 1885. Now in office.
Arthur H. Armington..... " 1886. " "
Walter W. Burnham.....from Feb. 5, 1895. " "

COLLECTORS OF TAXES.

*John Hill.....from June, 1832, to June, 1837.
*Robert Knight..... " June, 1837, to June, 1839.
*James Mumford..... " June, 1839, to June, 1859.
*Nehemiah S. Draper..... " June, 1859, to Oct., 1868.

(Office abolished October, 1868, and duties transferred to the City Treasurer.)

BOARD OF CANVASSERS AND REGISTRATION.

(Office created February 28, 1895, by Chapter 1405 of the Public Laws.)

Jason P. Stone.....from March 7, 1895. Now in office.
Charles E. Smith..... " March 7, 1895. " "
John T. Blodgett..... " March 7, 1895. " "

CITY REGISTRARS.

(Office created in July, 1855.)

*Edwin M. Snow.....from July, 1855, to Dec. 22, 1888. Died in office.
Charles V. Chapin..... " Dec. 24, 1888. Now in office.

SUPERINTENDENT OF HEALTH.

(Office created in July, 1856.)

*Edwin M. Snow.....from July, 1856, to Jan., 1884.
Charles V. Chapin..... " Jan., 1884. Now in office.

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BOARD OF FIRE COMMISSIONERS.

(Office created May 21, 1892, under Chapter 1100 of the Public Laws.)

Stillman White	from February 27, 1895.	Now in office.	
William H. Luther	" February 27, 1895.	"	"
Dexter Gorton	" February 27, 1895.	"	"

CHIEF ENGINEERS OF THE FIRE DEPARTMENT.

(Office created July 11, 1853.)

*Joseph W. Taylor	from July 11, 1853, to June, 1859.		
*Thomas Aldrich	" June, 1859, to June, 1862.		
*Charles H. Dunham	" June, 1862, to July 10, 1865.	Resigned.	
Dexter Gorton	" July 10, 1865, to June, 1869.		
Oliver E. Greene	" June, 1869, to July 2, 1884.	Resigned.	
George A. Steere	" July 2, 1884.	Now in office.	

DEPUTY CHIEF ENGINEERS OF THE FIRE DEPARTMENT.

(Office created March 10, 1883.)

George A. Steere	from March 12, 1883, to July 2, 1884.	Resigned.
Holden O. Hill	" March 19, 1885.	Now in office.

RECORDER OF DEEDS.

(Office created 1866.)

Gustavus A. Williamson	from June, 1866, to Jan. 17, 1895.	
Edward C. Joyce	" Jan. 17, 1895.	Now in office.

HARBOR MASTERS.

(Office created August 15, 1853.)

*Nathanial S. Mauran	from Aug. 15, 1853, to June, 1854.	
*Nathaniel Church	" June, 1854, to June, 1858.	
*Daniel Joslin	" June, 1858, to Jan., 1884.	
Thomas W. Waterman	" Jan., 1884, to Jan., 1885.	
James T. P. Bucklin	" Jan., 1885, to Jan., 1890.	
and	" Jan., 1897.	Now in office.
John H. Maguire	" Jan., 1890, to Jan., 1891.	
and	" Jan., 1892, to Jan., 1894.	
and	" Jan., 1896, to Jan., 1897.	
William H. Gladding	" Jan., 1891, to Jan., 1892.	
Thomas Gardner	" Jan., 1894, to Jan., 1896.	

SUPERINTENDENTS OF PUBLIC BUILDINGS.

(Office created December 28, 1868.)

*Obadiah Slade	from Jan. 25, 1869, to Oct. 1, 1886.	Died in office.
John H. Cottrell	" Jan. 3, 1887, to Jan., 1892.	

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Albert T. Mansfield.....from Jan., 1892, to 1896.
Philip B. Durfee..... " Jan., 1896, to Jan., 1897.
Albert T. Mansfield ..... " Jan., 1897. Now in office.

JUDGES OF THE MUNICIPAL COURT.

*Thomas Burgess.....from June, 1832, to June, 1853.
*Francis E. Hoppin..... " June, 1853, to June 14, 1858. Resigned.
*Albert G. Greene..... " June 14, 1858, to April 8, 1867.
*Amasa S. Westcott..... " April 8, 1867, to July 3, 1884.
Joseph E. Spink..... " July 13, 1884. Now in office.

CLERKS OF THE MUNICIPAL COURT.

*Allen O. Peck.....from June, 1832, to June, 1834.
*Albert G. Greene..... " June, 1834, to July 21, 1857.
*Samuel W. Peckham..... " July 24, 1857, to Aug. 10, 1857.
*Levi Salisbury..... " Aug. 10, 1857, to June, 1868.
George B. Nichols ..... " June, 1868, to July 18, 1884.
Charles C. Mumford..... " July 18, 1884, to July 9, 1885. Resigned.
Clifford A. Harrington .... " July 9, 1885, to May 13, 1889. Resigned.
Edward Field..... " May 13, 1889. Now in office.

SUPERINTENDENTS OF LIGHTS.

(Office created August 12, 1864, and filled by appointment of a police constable until October 5, 1874, when it was made elective by the City Council.)

*John M. Clarke.....from Dec. 1, 1864, to March 12, 1867.
Joseph C. Whiting, Jr. " March 12, 1867, to Oct., 1867.
*Charles M. Smith.... " Oct., 1867, to April 14, 1879.
*Samuel B. Swan ..... " April 14, 1879, to March 3, 1890. Died in office.
Oliver E. Greene..... " March 10, 1890. Now in office.

INSPECTORS OF BUILDINGS.

(Office created April 12, 1878.)

Oliver E. Greene.....from April 12, 1878, to January, 1884.
Spencer B. Hopkins..... " January, 1884. Now in office.

INSPECTOR OF PLUMBING.

(Office created August 4, 1893.)

Reuben S. Bemis.....from October 23, 1893. Now in office.

FIRE MARSHALS.

(Office created May 27, 1880.)

*Elias M. Jenckes.....from Jan. 20, 1881, to March 19, 1888.
Ira Winsor..... " March 19, 1888. Now in office.

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PUBLIC ADMINISTRATORS.

(Office created June 6, 1876.)

Daniel Burrows ..... from Feb. 5, 1877, to Feb. 6, 1882.
Jonathan G. Parkhurst..... " Feb. 16, 1882. Now in office.

JUSTICES OF THE POLICE COURT.

*Robert Knight, *Charles F. Tillinghast, *Albert G. Greene	Selected	June,	1832
*William R. Staples, *Alpheus Billings	"	"	1833
*William R. Staples, *Thomas White	"	"	1834
*Robert Knight, *Albert G. Greene, *Henry L. Bowen	"	"	1835
*Thomas White, *William P. Olney, *George F. Mann	"	"	1836
*Henry L. Bowen, *Walter S. Burges	"	"	1838
*Robert Knight, *Henry L. Bowen, *Walter S. Burges	"	"	1839
*Henry L. Bowen, *Walter S. Burges, *Edward H. Hazard	"	"	1840
*Henry L. Bowen, *Edward H. Hazard, *Walter Paine, Jr.	"	"	1842
*Henry L. Bowen, *Charles Holden, Jr., Charles Hart	"	"	1844
*Henry L. Bowen, *Samuel Brown, *Joseph S. Pitman	"	"	1845
*Samuel W. Peckham, *Henry L. Bowen, *Francis E. Hoppin	"	"	1846
*Samuel W. Peckham, *Francis E. Hoppin, *James M. Clarke	"	"	1847
*Samuel W. Peckham, *Francis E. Hoppin, Charles Hart	"	"	1849
*Samuel W. Peckham, Charles Hart	"	"	1853
*Henry L. Bowen, *William Knowles	"	"	1855
*Henry L. Bowen, *Samuel W. Peckham	"	"	1857
*Samuel W. Peckham, Horatio Rogers, Jr.	"	"	1861
*Samuel W. Peckham, *Lucius C. Ashley	"	"	1862
*Lucius C. Ashley, William H. Greene	"	"	1867
*Francis A. Daniels, Stephen Essex	"	"	1868
Stephen Essex, *Elias M. Jenckes	"	"	1871
*Elias M. Jenckes, Lorin M. Cook	"	"	1873
*†Elias M. Jenckes, Joseph S. G. Cobb	"	Jan.,	1886
Joseph S. G. Cobb, Henry J. Dubois	"	"	1893
Joseph S. G. Cobb, Richard E. Lyman	"	"	1896

Now in office.

† Died in office.

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CITY OFFICERS

AND

MEMBERS OF THE CITY GOVERNMENT

1832-1898.

ALPHABETICALLY ARRANGED.

The term of office for officers elected annually, was for the year ensuing the first Monday in June, until June, 1873, when the term then commencing was extended to January, 1875. Subsequently the term of office is for the year ensuing the first Monday in January, except when otherwise specified. In 1887, the ward lines were changed, the aldermen and councilmen elected therefrom to hold office commencing from the first Monday in January, 1888.

(The asterisk denotes the deceased.)

Adams, Andrew, mayor's clerk, from January 17, 1895 to 1896.

*Adams, Benjamin B, in common council, third ward, 1864 to 1866.

Addeman, Joshua M., clerk of the common council, from February 25, 1867, to January 2, 1882.

*Akerman, Charles, in common council, fifth ward, 1847 to 1848.

Aldrich, Edward S., in common council, second ward, 1890 to 1894.

Aldrich, Elisha M., in common council, ninth ward, 1868 to 1869.

Aldrich Elisha S., in common council, first ward, 1877 to 1879.

*Aldrich Esek, in common council, fifth ward, 1843 to 1845.

" " city treasurer, from March 11, 1850, to June, 1855.

Aldrich, Nelson W., in common council, fifth ward, 1869 to 1871; sixth ward, from June, 1872, to January, 1875. President from June, 1871, to 1873.

*Aldrich, Thomas, chief of fire department, June, 1859, to June, 1862.

*Allen, John B., in common council, third ward, 1883 to 1885, and from April, 1, 1885, to January, 1886. Elected to the common council, first ward, November 2, 1897, died prior to the inauguration, December 19, 1897.

Allen, Marvin E., in common council, seventh ward, 1897. Now in office.

*Allen, Mnason, in common council, sixth ward, 1833 to 1839, and 1841 to November 25, 1843. Died in office.

*Allen, Samuel, in common council, third ward, 1852 to 1855.

*Ames, Edward C., in common council, third ward, 1875 to 1876.

*Ames, James B., alderman, fourth ward, 1859 to 1861.

*Ames, Samuel, in common council, third ward, 1840 to 1842.

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Ames, William, in common council, third ward, from June 1872, to June 29, 1873. Resigned. Also in 1882.

*Andrews, David, in common council, fifth ward, 1836 to 1839.

Andrews, William, in common council, fifth ward, 1898. Now in office.

*Andrews, William, Jr., in common council, sixth ward, 1848 to 1849.

*Angell, Abner H., alderman, seventh ward, from August 6, 1873, to January, 1878.

*Angell, Daniel, in common council, first ward, 1838 to 1839, and 1855 to 1859.

Angell, Daniel, Jr., in common council, seventh ward, 1859 to 1861.

*Angell, Dexter, in common council, first ward, 1833 to 1841.

*Angell, Henry J., in common council, first ward, 1860 to 1861.

" " alderman, first ward, 1861 to 1863, 1864 to 1869, and 1871 to August 21, 1873. Died in office. President 1868 to 1869.

Angell, John W., in common council, fifth ward, 1872 to 1873, 1881 to 1886, and from January, 1888. Now in office. Commissioner of North Burial Ground, from January, 1895, to 1897.

Anthony, Albert L., in common council, seventh ward, 1893 to 1897.

*Anthony, Charles, in common council, fifth ward, 1854 to 1855, and from January, 1880, to October 4, 1880. Resigned. Also from November 2, 1880, to February 27, 1882. Resigned.

" " alderman, fifth ward, 1858 to 1860.

" " highway commissioner, from February 7, 1872, to May 24, 1878.

" " member of the board of public works, from March, 1882, to March, 1884.

Anthony, Frederick E., in common council, fourth ward, 1879, to February 26, 1883, and from 1885 to 1888.

" " member of board of public works, from March, 1883, to March 24, 1884. Resigned.

*Anthony, Henry, in common council, second ward, 1836 to 1841, 1848 to 1849, and 1859 to 1862.

*Anthony, Hezekiah, in common council, fifth ward, 1832 to 1835.

" " alderman, fifth ward, 1835 to 1838.

*Anthony James G., in common council, fourth ward, 1836 to 1838, and 1849 to 1854.

Anthony, John B., in common council, third ward, 1869 to 1870.

" " alderman, third ward, from May 21, 1875, to January, 1876.

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Anthony, Lewis W., in common council, sixth ward, 1871 to 1872.

Ardern, James, in common council, ninth ward, February 19, 1872, to J ary, 1876.

Armington Arthur H., assessor of taxes, from June, 1886. Now in offic

Armington, James H., in common council, second ward, 1860 to 1871.

Armstrong, Henry C., in common council, third ward, 1886 to 1888.

" " alderman, first ward, 1888 to 1890.

Arnold Frank S., in common council, ninth ward, 1884.

Arnold, A. Herbert, in common council, eighth ward, 1895 and 1897. in office.

" " commissioner of North Burial Ground, 1896. N office.

*Arnold, Stephen C., in common council, sixth ward, 1877 to 1879.

*Ashley, Lucius C., justice of the police court, June, 1863 to 1867.

*Avery, William B., in common council, first ward, 1883 to 1888.

*Ayer, William H., chief of police, from September 13, 1877, to May 4 Died in office.

Babbitt, Edward M., in common council, tenth ward, January, 18 September 23, 1885. Resigned.

*Babcock, George W., in common council, seventh ward, 1875 to 1877.

Bailey, Samuel H., in common council, seventh ward, 1892.

*Baker, Allen, in common council, first ward, 1846 to 1849.

*Baker Almon S., in common council, seventh ward, 1857 to 1859.

*Baker, George, in common council, fourth ward, and president fro to 1834.

Baker, Nathan H., in common council, first ward, 1882.

Baker, Reuben R., chief of police, from January 16, 1896. Now in offi

*Baker, Sterry, in common council, sixth ward, 1832 to 1834.

Baker, William C., mayor, 1898. Now in office.

*Balch, Joseph, Jr., in common council, second ward, 1851 to 1852.

Ballou, Daniel R., in common council, seventh ward, 1887.

" " alderman, ninth ward, from January 6, 1892, to President board of aldermen, from January, 1895.

Ballou, David, alderman, first ward, 1870 to 1871.

*Ballou, Frederick M., in common council, seventh ward, 1877 to 1880.

Barden, Charles A., in common council, second ward, 1894 to 1896.

Barker, Henry R., in common council, ninth ward, from June, 1873, t uary, 1880. President in 1879.

" " alderman, ninth ward, 1880 to 1883. President in

" " mayor, from 1889 to 1891.

" " commissioner of sinking funds, 1891. Now in offic

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*Barker, Joseph A., in common council, fifth ward, 1862 to 1864.
" " alderman, third ward, 1864 to 1866.
*Barker, William C., in common council, third ward, 1832 to 1836.
" " alderman, third ward, 1836 to 1838.
Barker, William Cyrus, in common council, fifth ward, 1878 to 1880.
*Barnaby, Abner J., in common council, fourth ward, from June, 1866, to January, 1878. President in 1876.
" " alderman, fourth ward, September 4, 1879, to January 1880.
*Barnaby, Jerothmul B., in common council, seventh ward, from June, 1870. to January, 1879.
*Barney, David W., in common council, third ward, 1863 to 1865.
Barney, Walter H., in common council, sixth ward, 1891 to 1894, and in 1895.
*Barstow, Amos C., mayor, from June, 1852 to 1853.
" " in common council, fourth ward, 1854 to 1856.
Barstow, George E., in common council, fourth ward, 1890 to 1894.
Bartlett, Charles H., in common council, first ward, 1877 to 1879.
Bartlett, Burrill, in common council, sixth ward, 1865 to 1868.
*Bartlett, Henry S., in common council, third ward, 1857 to 1861.
*Bartlett, Nathaniel P., inspector of steam boilers, 1857 to 1858.
Bassett, Edward D., in common council, ninth ward, 1886.
Batchelder, William W., in common council, eighth ward, 1885 to 1887.
" " alderman, eighth ward, 1887.
" " in common council, seventh ward, 1888 to 1893.
" " commissioner of North Burial Ground, 1894.
*Batcheller, Warren, surveyor of highways (east side), August 27, 1832, to June, 1833.
*Batcheller, William, surveyor of highways, from June, 1856, to June, 1858.
*Bates, Varnum J., alderman, second ward, 1852 to 1855.
Beane, William J., in common council, tenth ward, 1895 to 1898.
*Beckwith, Amos N., in common council, second ward, 1855 to 1856, 1857 to 1858, and 1871 to 1872.
*Beckwith Henry T., in common council, second ward, 1880.
*Behan, John, in common council, tenth ward, 1876, and in 1878.
Bemis, Reuben S., inspector of plumbing, from October 23, 1893. Now in office.
*Bennett, Cornelius W. B., in common council, fifth ward, 1857 to 1859.
*Billings, Alpheus, justice of the police court, June, 1833 to 1834.
Binney, William, in common council, second ward, from June, 1857, to January 26, 1874. President from June, 1863, to June, 1871.

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*Bishop, Nathan, superintendent of public schools, July 23, 1839, to May 23, 1851.

Blakely, William, in common council, fourth ward, 1894. Now in office.

Blanchard, Horace K., in common council, eighth ward, 1891 to 1897.

*Blanding, William B., in common council, fourth ward, 1885 to 1888.

Blaisdell, Samuel L , highway commissioner, from February 7, 1872, to May 26, 1876. Resigned.

Blodgett, John T., member of the board of canvassers and registration, from March 7, 1895. Now in office.

Blodgett, Samuel C., in common council, fourth ward, 1851 to 1854.

*Blodgett, William P., in common council, second ward, 1857 to 1858.

*Bowen, George W., in common council, first ward, 1836 to 1837.

*Bowen, Henry L., justice of the police court, June, 1835 to 1836, June, 1838 to 1847, and June, 1855 to 1861.

*Bowen, William H., alderman, second ward, 1855 to 1866.

" " license commissioner, from July 1, 1875, to May, 1886.

Boynton, Jesse, in common council, sixth ward, June to July 11, 1870. Resigned.

*Bradford, Gideon, in common council, ninth ward, June, 1869, to February 7, 1872.

" " highway commissioner, from February 7, 1872, to November 6, 1874. Died in office.

Bradford, Henry C., in common council, sixth ward, June, 1873, to January, 1876.

Bradford, William B., in common council, first ward, 1843 to 1846.

*Brastow, Billings, alderman, third ward, 1855 to 1859.

*Brayton, Lodowick, alderman, eighth ward, 1868 to 1870, and 1871 to 1872.

" " water commissioner, from October 26, 1876, to November 5, 1880.

*Brayton, William W., in common council, ninth ward, 1878, 1880, and in 1884.

Brennan, John M., in common council, tenth ward, 1877, to 1879.

" " alderman, tenth ward, from January 27, 1883 to 1888.

*Bridgham, Samuel W., mayor, from June, 1832, to December 31, 1840. Died in office.

*Briggs, Albert, in common council, first ward, 1862 to 1864.

*Briggs, John W,, in common council, fifth ward, 1875 to 1880.

" " alderman, fifth ward, 1880 to 1888.

" " commissioner of North Burial Ground, from 1879, to November 18, 1893. Died in office.

*Brown, Allen J., in common council, first ward, June, 1871, to January, 1875.

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Brown, D. Russell, in common council, fourth ward, 1881 to 1885.
Brown, H. Martin, in common council, ninth ward, 1890.
*Brown, Isaac, in common council, second ward, 1832 to 1835.
*Brown, James, in common council, fifth ward, 1840 to 1841.
*Brown, John D., in common council, first ward, 1839 to 1842.
Brown, John T., deputy chief of police, from September 13, 1877, to December 20, 1889. Resigned.
" " superintendent of the Dexter Asylum, December 21, 1889. Now in office.
*Brown, Joseph F., in common council, tenth ward, 1877 to 1880.
" " alderman, in 1882.
*Brown, Joshua R., in common council, fifth ward, 1862 to 1868, 1871 to 1872.
Brown, Obadiah, highway commissioner, from May 24, 1878 to November 5, 1880.
" " member of the board of public works, from November 5, 1880, to March, 1882.
*Brown, Samuel, justice of the police court, June, 1845, to June, 1846.
Brown, Samuel W., city clerk, from January 5, 1860, to January 6, 1879.
*Brownell, Richmond, in common council, fourth ward, 1845 to 1848.
Brownell, Stephen, in common council, seventh ward, 1856 to 1857.
*Bucklin, James C., in common council, fifth ward, 1839 to 1841, and 1842 to 1843.
Bucklin, James T. P., harbor master, from January, 1885 to 1890, 1897. Now in office.
" " inspector of provisions, 1893 to 1896.
*Bullock, Richmond, alderman, third ward, 1842 to 1846.
Bullock, Sam H., in common council first ward, 1896. Now in office.
*Bullock, William P., in common council, second ward, 1841 to 1843.
Burbank, Caleb A., mayor's clerk, from January, 1879 to February, 1884.
Burbank, Robert W., alderman, second ward, 1896 to 1898.
Burdick, James, in common council, third ward, 1892 and 1894. Now in office.
*Burges, Walter S., justice of the police court, June, 1838 to June, 1842.
*Burgess, Alexander, alderman, first ward, 1869 to 1870.
*Burgess, Frederick, in common council, seventh ward, 1863 to 1864.
" " alderman, seventh ward, 1864 to 1866.
" " alderman, eighth ward, 1866 to 1868.
" " in common council, eighth ward, 1870 to 1871.
*Burgess, Thomas, judge of the municipal court, from June, 1832 to June, 1853.
*Burgess, Thomas M., mayor, from February 2, 1841, to June, 1852.
*Burnett, Charles, Jr., in common council, fifth ward, 1847 to 1848.

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Burnham, George H., in common council, sixth ward, 1876 to 1881.
dent in 1880.
" " alderman, sixth ward, January 1, 1881 to Janu
1885. Resigned. Also from January 5, 1885, t
" " acting judge of the municipal court, from May 21
in re. cases of the estates of James Knowle
Martha B. Newton.
" " license commissioner, from August 6, 1889, to
1893, and from August, 1893. Now in office.
Burnham, Walter W., assessor of taxes, from February 5, 1895. Now in
*Burr, Edward, in common council, seventh ward, February 15 to June
*Burrington, Henry H., in common council, fourth ward, 1864 to 1868.
" " alderman, fourth ward, 1868 to 1870.
*Burroughs, John E., gauger, in 1886.
Burrows, Daniel, public administrator, from February 5, 1877, to Fel
6, 1882. Resigned.
*Burrows, Edward G., in common council, sixth ward, 1887.
" " alderman, fifth ward, 1888, to February 7, 1895.
in office.
" " president of the board of aldermen, 1891 to 1893
*Burrows, John R., in common council, sixth ward, 1837 to 1888.
*Burrows, Joseph, Jr., in common council, sixth ward, 1844 to 1846.
*Burt, Consider W., in common council, first ward, 1856 to 1857.
Burton, David, in common council, fifth ward, 1886 to 1896.
*Bush, Richard W., in common council, second ward, 1847 to 1855.
Bushee, Nathaniel C., surveyor of lumber, from February, 1878, to Fel
28, 1895.
*Butler James H., in common council, fifth ward, 1877.
*Butts, James E., in common council, sixth ward, 1837 to 1838, and
1844.
Butterworth, James C., in common council, third ward, June, 1872, t
uary, 1875.

Cady, David, in common council, sixth ward, 1871 to 1872.
*Cady, Joseph, in common council, second ward, 1832 to 1836.
" " alderman, second ward, 1836 to 1842.
Calder, Albert L., in common council, fourth ward, 1862 to 1870.
Calder, Edwin E., inspector of milk, from March 29, 1877, to January,
Carpenter, Albert G., in common council, ninth ward, 1884 to 1887.
Carpenter, Charles A., in common council, ninth ward, 1891.
Carpenter, Charles E., in common council, fifth ward, 1857 to 1860,
1869, and 1878 to 1881.

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Carpenter, Charles E., water commissioner, from September 27, 1869, to November, 1876.

" " member of the board of public works, from May 19, 1884, to February 11, 1889.

Carpenter, Clarence H., surveyor of lumber, from February 28, 1895. Now in office.

*Carpenter, Daniel E., in common council, fifth ward, 1843 to 1855.

*Carpenter, Earl, in common council, fifth ward, 1841 to 1842,

*Carpenter, Ebenezer, in common council, fifth ward, 1838 to 1839, and 1841 to 1842.

*Carpenter, George M., record commissioner, from March 6, 1891, to July 31, 1896. Died in office.

*Carpenter, Sturgis P., in common council, third ward, June, 1872, to January, 1876.

" " alderman, third ward, 1880, to June 15, 1884. Died in office.

*Carr, George M., in common council, seventh ward, 1864 to 1865.

Carty, John A., in common council, ninth ward, 1883, in 1885, and in 1887.

" " " " sixth ward, 1888.

*Case, Ervin T., in common council, eighth ward, 1871 to 1873.

" " " " ninth ward, 1879.

*Case, Phillip, in common council, fourth ward, 1849 to 1851, and 1860 to 1864.

" " alderman, fourth ward, 1864 to 1865.

Casey, John, in common council, tenth ward, 1886 to 1888.

" " alderman, tenth ward, 1888.

*Cassidy, John, in common council, tenth ward, 1879 to 1881, and in 1882.

*Chace, George I., alderman, second ward, 1878 to 1880.

*Chace, Nelson, in common council, first ward, 1859 to 1861.

*Chafee, Zachariah, in common council, third ward, 1869.

*Chaffee, Daniel K., city marshal, from June, 1848, to June, 1854.

*Chaffin, Hollis, superintendent of Dexter Asylum, March 25, 1850, to May 1, 1868.

Chapin, Charles V., superintendent of health, from January, 1884. Now in office.

" " city registrar, from December 24, 1888. Now in office.

*Chapman, Rhodes B., in common council, second ward, 1856 to 1858.

Chase, Franklin A., in common council, eighth ward, 1881 to 1886.

" " alderman, eighth ward, 1886.

Chase, Philip S., city auditor, from January 17, 1895. Now in office.

Chevers, Aurion V., deputy city clerk, from April 25, 1878. Now in office.

Child, Benjamin H., chief of police, 1881 to January 16, 1896.

Child, William D., inspector of kerosene, from December 2, 1879. Now in office.

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*Church, John, in common council, third ward, 1832 to 1836.
*Church, Nathaniel, harbor master, from June, 1854 to 1858.
*Claflin, George L., in common council, first ward, 1870 to 1871, and from 1881 to 1883.
Clapp, Otis P., city engineer, from May 3, 1897. Now in office.
Clark, Henry C., alderman, eighth ward, 1876.
" " in common council, eighth ward, from 1882 to 1885.
*Clark, John H., in common council, first ward, 1865 to 1866, and 1867 to 1868.
Clarke, Ezekiel W., in common council, second ward, 1890 to 1896.
*Clarke, George L., Mayor, from June, 1869, to June, 1870.
" " alderman, first ward, from September 8, 1873, to January, 1875.
*Clarke, James M., justice of the police court, June, 1847 to 1849.
" " city solicitor, from June 25, 1853, to August 23, 1854, and from June, 1855, to June, 1863.
*Clarke, Pardon, in common council, fifth ward, 1832 to 1836.
Clarke, Walter L., deputy city treasurer, from July 1, 1888. Now in office.
Clarke, William E., in common council, third ward, 1886 to 1888.
" " " " " first ward, 1888 to 1890.
" " alderman, first ward, 1890 to May 26, 1890. Resigned.
" " city clerk, from June 2, 1890. Now in office.
*Clifford, Benjamin, alderman, third ward, 1836 to 1837.
" " city treasurer, from July 27, 1840, to November 22, 1843. Resigned.
Cobb, Charles D., weigher at the Haymarket scales, 1877, Now in office.
Cobb, Joseph S. G., in common council, sixth ward, 1882 to January 4, 1886. Resigned.
" " police justice, January 4, 1886. Now in office.
*Coggeshall, James H., in common council, second ward, 1860 to 1866.
" " alderman, second ward, 1866 to 1872.
*Cole, George A., inspector of kerosene, from June, 1869, to November 28, 1879. Died in office.
*Coleman, John A., commissioner of public works, from February 11, 1889, to March, 1891.
Colwell, Francis, city solicitor, from June, 1865, to June, 1866, and from May, 1892. Now in office.
" " in common council, fourth ward, 1870 to 1871, and in 1875. President in 1875.
Conneeley, William, in common council, ninth ward, from July 12, 1883, to January, 1884.
Cook, Lorin M., justice of police court, from June, 1873, to January, 1886.

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*Cook, Stephen, in common council, first ward, 1868 to 1870.

*Cook, Benoni, in common council, second ward, 1832 to 1837.

Cooke, Henry W., in common council, first ward, 1896 to 1898.

*Cooke, Joseph J., water commissioner, from September 27, 1869, to November 1, 1876.

*Cooke, Joseph S., in common council, third ward, 1832 to 1833.

Cooke, Stephen A., in common council, second ward, 1897. Now in office.

*Cooney, John P., in common council, first ward, 1875, 1876, and in 1878.

Corliss, William, water commissioner, from May 23, 1872, to November 1, 1876.

*Cornell, Stephen, in common council, fourth ward, 1854 to 1856, and 1859 to 1860.

*Cory, Henry A., in common council, fifth ward, from 1863 to 1868, 1869 to 1872, and from April 1, 1874, to January, 1876.

*Cosgrove, John, in common council, tenth ward, 1887.

Cottrell, John H., superintendent of public buildings, 1887 to 1892.

Covell, William H., in common council, tenth ward, 1883 and 1888 to 1894.

*Cowing, Martin K., in common council, first ward, 1837 to 1839.

Cram, Henry, in common council, January 4 to January 18, 1886. (Seat declared vacant.) From January 26, 1886, to 1888.

*Cranston, Barzillai, in common council, fourth ward, from November 19, 1838, to June, 1842.

Cranston, James E., alderman, third ward, from July 2, 1884, to January, 1885.

*Cranston, William B., superintendent of hacks, from November 28, 1864, to June 7, 1875.

*Crary, Stephen, in common council, seventh ward, from February 28, 1854, to 1855.

Cressy, George P., in common council, fourth ward, 1895 to 1897.

*Crooker, Josiah F., in common council, first ward, 1844 to 1846.

Crooker, Josiah W., in common council, first ward, 1879 to 1881.

*Cross, James M., city auditor, from June 8, 1863, to February 10, 1887. Died in office.

*Cross, William J., in common council, second ward, 1862 to 1863.

Crossley, William J., in common council, ninth ward, from February 23, 1876, to January, 1878, and in 1879.

Cummings, Matthew J., overseer of the poor, January, 1890. Now in office.

*Curry, Samuel G., in common council, fourth ward, 1862 to 1865.

" " alderman, fourth ward, 1865 to 1868.

*Curtis, George, in common council, second ward, 1833 to 1838. President from June, 1834, to June, 1837.

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Cushman, Eleazer M., superintendent of Providence Reform School, M
1853, to July 1, 1860.

*Daboll, William V., in common council, ninth ward, 1868 to 1871, and in
" " alderman, ninth ward, from June, 1871, to 1872
from June, 1873, to January, 1876.
*Dailey, Albert, in common council, second ward, 1860 to 1866.
*Danforth, Walter R., mayor, from June, 1853, to June, 1854.
*Daniels, Francis A., justice of the police court, June, 1868, to 1872.
*Daniels, George P., in common council, first ward, 1834 to 1835, and 1
March 30, 1848. Died in office.
*Daniels, Peter, in common council, first ward, 1832 to 1836.
Darcy, Edward H., in common council, tenth ward, 1891 to 1895.
" " alderman, tenth ward, 1895 to 1897.
*Darling, George H., in common council, fifth ward, 1888 to 1894.
Darling, John O., in common council. eighth ward, 1898. Now in offi
*Darling, William O., in common council, sixth ward, 1852 to 1853.
Davis, Edward N., in common council, seventh ward, 1856 to 1857.
Davis, Henry F., in common council, seventh ward, 1861 to 1863.
Davis, Lewis E., in common council, seventh ward, 1891 to 1896, 1897.
in office.
*Davis, Thomas 2d, in common council, first ward, 1848 to 1851.
*Day, Daniel, in common council, second ward, 1856 to 1857.
*Day, Daniel E., in common council, sixth ward, 1875 to 1880.
" " commissioner of sinking funds, from January, 1875,
15, 1893. Died in office.
Deming, Richard H., in common council, seventh ward, 1889 to 1891.
" " alderman, seventh ward, 1891.
" " park commissioner, from January 5, 1891. 1
office.
Deming, Thomas D., in common council, first ward, 1883 to 1885.
Denison, Russell A., in common council, eighth ward, 1875.
Dennis, Arthur W., in common council, seventh ward, 1887.
" " " " ninth ward, 1888 to 1890. Pr
1888 to 1890.
" " alderman, ninth ward, 1890.
Devenish, John J., in common council, tenth ward, from September
to January, 1888.
" " " " third ward, from January to
1888. Resigned.
*Dexter, Arthur F., in common council, third ward, 1876 to 1879, an
ary, 1885, to March 9, 1885. Resigned.

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Dexter, Lewis, in common council, third ward, 1870 to 1872.
Dimond, Francis M., in common council, ninth ward, 1880.
Dorchester, Hoffman S., in common council, ninth ward, 1885 to 1887.
" " " " sixth ward, 1889 to 1891.
Dorney, Thomas J., mayor's clerk, 1896 to 1898.
Dorrance, James R., in common council, third ward, 1857 to 1859.
Douglas, Samuel T., in common council, first ward, 1887.
" " " " second ward, 1888 to 1890.
" " alderman, second ward, 1890 to 1892.
Douglas, William W., in common council, second ward, June, 1873, to January, 1876.
Doyle, John T., inspector of steam boilers, 1896. Now in office.
*Doyle, Thomas A., in common council, fifth ward, 1852 to 1855, and 1856 to 1857. President 1854 to 1855.
" " mayor, from June, 1864, to June, 1869; from June, 1870, to January, 1881, and from January, 1884, to June 9, 1886. Died in office.
Draper, John L., in common council, fourth ward, 1869 to 1870.
*Draper, Nehemiah S., collector of taxes, from June, 1859, to October, 1861.
Dubois, Henry J., justice of the police court, January, 1893, to January 16, 1896.
*Dudley, Charles, in common council, sixth ward, 1864 to 1866.
" " assessor of taxes, June, 1881, to June, 1886.
Duffy, Charles Gavan, in common council, tenth ward, 1894.
*Dunham, Charles H., chief of fire department, June, 1862, to July 10, 1865. Resigned.
Dunn, Patrick A., in common council, tenth ward, 1888 to 1890.
*Dunwell, John, alderman, fifth ward, 1833 to 1835.
Durfee, Joseph, Jr., in common council, first ward, 1850 to 1851.
Durfee, Philip B., in common council, first ward, 1888 to 1896.
" " superintendent of public buildings, 1896.
*Durfee, Samuel B., in common council, sixth ward, 1849 to 1851, 1868 to 1870.
" " surveyor of highways, from June, 1858, to June, 1866.
*Durfee, Sanford, in common council, first ward, 1864 to 1865.
*Dutcher, Oliver F., in common council, fifth ward, 1869 to 1870.
Dyer, Elisha, alderman, first ward, from June 7, 1890, to January, 1892

*Earle, George B., in common council, third ward, 1866 to 1868.
" " alderman, third ward, from June, 1868, to May 21, 1875.
Earle, James M., in common council, second ward, 1841 to 1843.

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*Earle, William, in common council, third ward, 1847 to 1852.
" " alderman, third ward, 1859 to 1862.
Eaton, Amasa M., in common council, tenth ward, from May 7, 1874, to January, 1875.
" " alderman, tenth ward, 1875.
*Eddy, Cyrus T., in common council, eighth ward, 1868 to 1869.
*Eddy, Henry B., in common council, fifth ward, 1880.
Eddy, John, in common council, seventh ward, 1857 to 1859.
*Eddy, John S., in common council, fifth ward, 1837 to 1839.
*Eddy, Lyman H., in common council, eighth ward, 1880 to 1882.
Egan, Patrick, deputy chief of police, from December 20, 1889. Now in office.
Eldridge, Martin L., superintendent of Providence Reform School, from July 15, 1876, to July 1, 1880.
*Elliott, George C., in common council, sixth ward, 1863 to 1865.
*Emerson, George A., deputy city treasurer, from January 18, 1886, to August 6, 1888. Died in office.
Essex, Stephen, justice of the police court, from June, 1868, to June, 1873.
*Everett, Amherst, in common council, third ward, 1833 to 1839.
" " alderman, third ward, 1843 to 1845.

Fairbanks, Willard W., in common council, third ward, 1840 to 1846.
Fanning, Joseph H., in common council, seventh ward, 1882 to 1887.
" " alderman, seventh ward, 1887.
Farmer, Edward G., gauger, from January, 1855, to January, 1886, and in 1887 to 1893.
Farnsworth, John P., in common council, ninth ward, 1898. Now in office.
Farrington, Preston M., in common council, fourth ward, 1859 to 1861.
*Fenner, Nicholas A., in common council, eighth ward, 1875 to 1877.
" " alderman, eighth ward, 1878 to 1880.
*Fenner, Thomas B., clerk of common council, June 4, 1832, at organization.
" " in common council, fourth ward, 1832 to 1836, and 1838 to 1842. President from 1839 to 1842.
" " alderman, second ward, 1842 to 1845.
*Fenner, William H., in common council, sixth ward, 1862 to 1864, and from fourth ward, June, 1869, to January, 1875.
*Field, Daniel, in common council, fifth ward, 1833 to 1836.
Field, Edward, city auditor, *pro tem.*, from February 14, 1887, to March 24 1887.
" " record commissioner, from March 6, 1891, Now in office.
" " clerk of the municipal court, from May 13, 1889. Now in office.

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*Field, Groen Burroughs, in common council, seventh ward, 1862 to 1864.
*Field, Richard M., city clerk, from June 4, 1832, to December 1, 1843. Died in office.
Fisher, Addison Q., in common council, second ward, 1871 to 1873.
" " alderman, second ward, June, 1873, to January, 1878, and in 1887. President June, 1873, to January, 1878.
*Fisher, Cyrus, in common council, second ward, 1831 to 1835.
*Fisk, Alfred W., in common council, seventh ward, 1866 to 1870.
Fletcher, Henry, in common council, eighth ward, 1898. Now in office.
*Fletcher, Thomas, in common council, first ward, 1839 to 1841, and 1844.
*Foster, William, in common council, fifth ward, 1840.
Foyer, James B., in common council, tenth ward, 1881 to 1884.
Francis, John N., in common council, sixth ward, 1854 to 1863. President from June, 1860, to June, 1863.
Franklin, Henry B., in common council, fourth ward, 1878 to 1880.
Freeman, James F., in common council, sixth ward, 1894 to 1897.
" " alderman, sixth ward, 1897. Now in office.
Fuller, Myron H., alderman, sixth ward, 1891 to 1895, and in 1896.

Gallagher, Edward, in common council, third ward, 1892 to 1894.
Gallup, Albert S., in common council, ninth ward, 1868 to 1869.
*Gardiner, Peleg W., in common council, fifth ward, 1839 to 1840.
*Gardiner, Marinus W., city treasurer, from June, 1855, to December 1, 1862.
Gardiner, Marinus W., (Jr.,) in common council, fifth ward, 1896. Now in office.
*Gardner, Henry W., in common council, eighth ward, 1869 to 1870.
" " alderman, eighth ward, 1870 to 1871.
Gardner, Rathbone, in common council, second ward, from 1884 to 1887, and in 1896. President from 1885 to 1887.
Gardner, Thomas, harbor master, 1894 to 1896.
George, Daniel F., mayor's clerk, 1898. Now in office.
George, Edward T., in common council, eighth ward, 1885.
Gibbons, John, in common council, tenth ward, 1889 to 1892.
*Gibbs, Charles R., mayor's clerk, from July 9, 1885, to January 4, 1892.
Giblin, Augustine, in common council, third ward, 1893 and 1895.
Gilmartin, John J., in common council, third ward, 1890 to 1892.
" " alderman, third ward, 1893.
*Gilmore, Joseph F., in common council, sixth ward, 1841 to 1842, and 1848 to 1851.
" " alderman, sixth ward, 1852 to 1858.
Gladding, Benjamin C., in common council, third ward, 1863 to 1869.
*Gladding, Samuel, in common council, fourth ward, 1845 to 1848.

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Gladding, William H., harbor master, 1891.
" " inspector of provisions from 1896 to 1898.
Goddard, William, in common council, second ward, 1852 to 1855.
*Godfrey, Christopher C., in common council, third ward, 1836.
Goff, James C., in common council, third ward, 1877 to 1882.
Golrick, Mark A., in common council, ninth ward, 1888.
" " inspector of provisions from 1898. Now in office.
*Goodhue, Daniel T., in common council, fourth ward, 1838 to 1841, and 1842 to 1845.
*Gorham, Jabez, in common council, first ward, 1842 to 1844.
Gorman, Charles E., in common council, tenth ward, from May 7, 1874, to January, 1875.
" " alderman, tenth ward, 1879 to 1882, and 1890.
Gorton, Dexter, chief of fire department, July 10, 1865, to June, 1869.
" " in common council, fifth ward, 1886 to 1888.
" " fire commissioner, from February 27, 1895. Now in office.
*Gould, John, in common council, sixth ward, 1833 to 1834, 1836 to 1837, and 1838 to 1840.
Granger, Daniel L. D., city treasurer, from January 13, 1890. Now in office.
Grant, Henry T., alderman, sixth ward, 1862 to 1864.
Grant, Joseph, in common council, sixth ward, 1834 to 1836.
Gray, Abraham A., in common council, second ward, 1896 to 1898.
" " alderman, second ward, 1898. Now in office.
Gray, Samuel M., city engineer, from February 5, 1877, to May 5, 1890.
Greeley, Michael, in common council, third ward, 1888 to 1890.
*Greene, Albert G., justice of the police court, June, 1832, to 1833, 1835 to 1836.
" " clerk of the municipal court, from June, 1834, to July 21, 1857. Resigned.
" " clerk of the common council, from June, 1834, to February 11, 1867. Resigned.
" " judge of the municipal court, from June 14, 1858, to April 8, 1867. Resigned.
*Greene, Allen, in common council, first ward, 1863 to 1864, 1865 to 1866, and from June, 1873, to January, 1875, and 1880.
Green, Arnold, in common council, third ward, from March 5, 1877, to January, 1880, and 1882.
Greene, David C., in common council, first ward, 1848.
*Greene, Duty, in common council, sixth ward, 1836 and 1842 to 1847.
*Greene, Edward A. in common council, second ward, 1855 to 1857.
*Greene, Godfrey, in common council, fifth ward, 1864 to 1866.
*Greene, Henry R., alderman, fifth ward, 1832.

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*Greene, Luke, in common council, fourth ward, 1854 to 1857.

Greene, Oliver E., inspector of kerosene, from March 26, 1867, to June, 1869.

" " chief of fire department, from June, 1869, to July 2, 1884. Resigned.

" " inspector of buildings, from April 12, 1878, to April 10, 1883.

" " sealer of weights and measures, from May 5, 1884, to March 10, 1890. Resigned.

" " superintendent of lights, from March 10, 1890. Now in office.

*Greene, Rufus, in common council, fourth ward, 1855 to 1857.

*Greene, Russell, in common council, fifth ward, 1846 to 1847.

*Greene, Samuel S., superintendent of public schools, June 6, 1851, to January 29, 1855.

*Greene, Simon H., in common council, fourth ward, 1835 to 1839.

*Greene, Thomas C., in common council, third ward, 1861.

*Greene, William B., alderman, eighth ward, 1880 to 1886.

*Greene, William F., overseer of the poor, June, 1836, to October 16, 1854. Resigned.

Greene, William H., justice of the police court, June, 1867, to 1868.

Grimwood, Henry A., in common council, eighth ward, 1897. Now in office.

Grinnell, Joseph D., in common council, fifth ward, from March 21, 1895. Now in office.

*Grinnell, William T., Sr., surveyor of highways, June, 1832. to August 27, 1832.

" " alderman, fourth ward, 1832 to 1835.

*Grinnell, William T., in common council, second ward, 1849 to 1855.

*Grundy, Ellis, in common council, first ward, 1866.

*Gross, Thomas J. A., chief of police, June, 1870, to August 2, 1871. Died in office.

Guild, Reuben A., in common council, first ward, 1857 to 1860, 1861 to 1864, and 1872.

*Gurney, Austin, in common council, third ward, 1838 to 1841.

*Hale, William M., in common council, third ward, 1862 to 1864.

*Hall, George W., city treasurer, February 19, 1849, to March 11, 1850. Resigned.

" " in common council, third ward, 1850.

" " alderman, third ward, 1851 to 1855.

Hall, Henry J., in common council, tenth ward, from January to September 4, 1882. Resigned.

Hall, Jeremiah H., in common council, tenth ward, 1898. Now in office.

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*Ham, George W., assessor of taxes, from June, 1866, to June 6, 1869. Died in office.

*Ham, James S., alderman, fifth ward, 1848 to 1849, and 1861 to 1864. President from March 23, 1863, to June, 1864.

" " in common council, fifth ward, 1860.

*Ham, William, in common council, fifth ward, 1833 to 1837.

*Hamill, Hugh, in common council, tenth ward, from May 7, 1874, to January, 1877, and from 1879 to 1882.

*Hamlin, John H., in common council, second ward, 1848 to 1851.

*Harding, Richard, in common council, third ward, 1837.

Harrington, Alfred A., in common council, eighth ward, 1868 to 1870, and from 1880 to 1885.

*Harrington, Charles N., in common council, fourth ward, 1861 to 1862, and 1866.

Harrington, Clifford A., mayor's clerk, from February 4, 1884, to July 9, 1885 Resigned.

" " clerk of the municipal court, from July 9, 1885, to May 13, 1889. Resigned.

Harrington, Josiah B., in common council, sixth ward, 1864.

Harris, Charles E., in common council, eighth ward, 1880 to 1882, and 1887 to 1891.

" " alderman, eighth ward, 1891 to 1896.

Harris, Lemuel S., in common council, seventh ward, June, 1865, to January, 1875.

Harris, Lemuel S., highway commissioner, from January 1875, to January, 1879.

*Harris, William A., in common council, first ward, 1883.

Hart, Charles, justice of the police court, June, 1844, to 1845, and June, 1853, to 1855.

*Hart, Thomas W., city marshal, from June, 1859, to June, 1866.

" " surveyor of highways, from June, 1866, to April 10, 1872.

" " highway commissioner, from February 5, 1877, to November 5, 1880.

*Hartshorn, Isaac, in common council, fifth ward, 1845.

*Hartshorn, Joseph C., in common council, seventh ward, 1856 to 1859.

*Hartwell, Mortimer H., in common council, seventh ward, 1888 to 1891.

*Harwood, Edward, city sergeant, from June, 1832, to April 10, 1848.

*Hatch, Watson D., in common council, sixth ward, 1846 to 1849.

*Hawes, Arnold C., in common council, fifth ward, 1856.

Hayden, Daniel F., clerk of common council, from January 2, 1882. Now in office.

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Hayden, Daniel F., clerk of committees, from February 17, 1890. Now in office.

*Hayes, Wingate, in common council, from January 2, 1851, to 1855. President from 1852 to 1855.

*Hayward, George W., in common council, sixth ward, 1863.

Hayward, Richard, in common council, ninth ward, 1871.

Hayward, William S., in common council, sixth ward, from June, 1872, to November 9, 1876.

" " alderman, sixth ward, November 9, 1876, to January, 1881. President from January, 1878, to 1881.

" " mayor, 1881 to 1884.

" " commissioner of sinking funds, from May 15, 1893. Now in office.

*Hazard, Edward H., justice of the police court, June, 1840, to 1844.

Hazard, Henry S., in common council, fifth ward, 1842.

Heffernan, Timothy, in common council, tenth ward, 1880 to 1882.

*Henry, Stephen P., in common council, eighth ward, 1866.

Hickie, William A., in common council, sixth ward, 1891 to 1893, and 1894.

Hicks, William H. inspector of steam boilers, 1891 to 1896.

Hidden, Henry A., alderman, fifth ward, 1860.

*Hidden, James C., in common council, fifth ward, 1843 to 1847, and 1868 to 1869. President from 1845 to 1847.

" " assessor of taxes, from June, 1869, to June, 1883.

*Hill, George, in common council, sixth ward, 1834 to 1836.

*Hill, Hiram, surveyor general of lumber, February, 1832, to February, 1847.

*Hill, Hiram, alderman, third ward, 1847 to 1851.

*Hill, John, collector of taxes, from June, 1832, to June, 1837.

*Hill, Thomas J., in common council, fifth ward, 1848 to 1852, 1855 to 1856, and 1878.

Hilton, William D., in common council, seventh ward, 1873.

Hinckley, Frank L., in common council, first ward, 1898. Now in office.

*Hodges, Bradford, in common council, fifth ward, 1841 to 1843.

" " alderman, fifth ward, 1846 to 1848.

Holbrook, Charles W., in common council, first ward, 1853 to 1855.

*Holden, Charles, alderman, second ward, 1832 to 1836.

*Holden, Charles, Jr., justice of the police court, June, 1844, to June, 1845.

*Holden, Isaac H., in common council, sixth ward, 1852 to 1853.

*Holden, Thomas R., in common council, first ward, 1832 to 1835.

" " alderman, first ward, 1837 to 1841.

*Holden, Zelotes W., in common council, sixth ward, 1849 to 1851.

" " alderman, seventh ward, 1854 to 1860.

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Holmes, Henry L., register of transfers, from October 2, 1876, to A 1893. Office abolished.

Hooper, Prentiss O., city gauger, 1894.

Hopkins, Edmund S., in common council, eighth ward, 1878 to 1881.

*Hopkins, Israel M., in common council, eighth ward, June, 1872, to ary, 1875.

Hopkins, James N., in common council, sixth ward, 1851 to 1852, and 1 1855.

Hopkins, Spencer B., inspector of buildings, from January, 1884. N office.

*Hopkins, William H., in common council, fifth ward, 1856 to 1864.
" " alderman, fifth ward, 1866 to 1871.

*Hoppin, Francis E., justice of the police court, June, 1846, to 1853.
" " judge of the municipal court, from June, 1853, to 14, 1858. Resigned.

Hoppin, George H., in common council, fourth ward, 1847.

*Hoppin, Thomas C., alderman, fourth ward, 1835 to 1848.

*Hoppin, William W., in common council, fourth ward, 1838 to 1842.
" " alderman, fourth ward, 1848 to 1852.

Howard, Elisha H., in common council, first ward, 1896 to 1898.

*Howland, Henry A., in common council, fifth ward, 1849.

*Howland, John A., in common council, third ward, 1861.

*Hudson, Horatio G., in common council, sixth ward, 1837 to 1838, an to 1841.

*Hudson, William H., city marshal, from June, 1854, to June, 1859.

*Hughes, John L., in common council, fourth ward, 1834 to 1842.

Hull, Charles F., in common council, first ward, 1879 to 1882.

*Hunt, Benjamin, Jr., in common council, eighth ward, 1870 to 1872 from June, 1873, to January, 1877.

Hunt, Charles H., chief of police, from May 24, 1879, to November 1 Resigned.
" " member of board of public works, from Februa 1886, to February 11, 1889.

*Hunt, David, in common council, seventh ward, 1866 to 1868.

*Hunt, George, in common council, first ward, 1851 to 1854, and 1861 to

*Hutchins, Henry S., in common council, fifth ward, 1861.

*Hutchins, Shubael, in common council, fourth ward, 1842 to 1845.

*Jackson, George W., in common council, second ward, 1835 to 1841. dent 1837 to 1839.

*Jackson, Samuel, 2d, in common council, fifth ward, 1832.

*James, Samuel, in common council, fifth ward, 1842 to 1844.

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*James, Samuel, alderman, fifth ward, 1849 to 1855.

*Jastram, George B., city auditor, from June, 1850, to June, 1854.

*Jenckes, Elias M., justice of the police court, from June, 1872, to October 29, 1892. Died in office.

" " fire marshal, from January, 1881, to March 19, 1888.

" " coroner, from July, 1887, to October 29, 1892. Died in office.

*Jenks, George H., in common council, third ward, 1866 to 1869.

Jillson, Esek A., surveyor of lumber, from February, 1870, to February, 1873, and from February, 1874, to February, 1878.

*Johnson, Freeborn, in common council, fifth ward, 1868 to 1869, and June, 1873, to January, 1875.

*Johnson, George A., in common council, ninth ward, from June, 1872, to January, 1875.

*Johnson, Oliver, in common council, fourth ward, 1841 to 1842, 1852 to 1855, and 1856.

*Johnson, William S., in common council, seventh ward, 1875.

Jones, Augustine, in common council, second ward, 1897. Now in office.

Jones, John D., in common council, third ward, 1841 to 1848, and 1859 to 1862.

" " alderman, third ward, 1862 to 1868. President 1866 to 1868.

*Joslin, Daniel, harbor master, from June, 1858, to January, 1884.

Joslin, Henry V. A., mayor's clerk, from April 29, 1874, to January 6, 1879. Resigned.

" " city clerk, from January 6, 1879, to June 2, 1890. Resigned.

*Joslin, John H., in common council, seventh ward, 1869 to 1873.

" " alderman, seventh ward, June to July 24, 1873. Died in office.

*Joslin, Leonard F., in common council, eighth ward, 1878 to 1880.

Joyce, Edward C., mayor's clerk, from January 1, 1894, to January 17, 1895.

" " recorder of deeds, from January 17, 1895. Now in office.

Kavanagh, Luke, in common council, tenth ward, 1896. Now in office.

Keep, Frederick E., in common council, sixth ward, 1870 to 1872.

*Keith, Christopher T., assessor of taxes, from June, 1866, to June, 1881.

Kelleher, Daniel F., in common council, second ward, 1896.

Kelly, James H., in common council, third ward, 1890 to 1894, 1896. Now in office.

*Kendrick, John, in common council, sixth ward, 1865 to 1868.

Kendrick, John E., in common council, ninth ward, 1890 to 1898.

" " president 1896 to 1898.

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Kendrick, Joseph H., in common council, fourth ward, 1888 to 1897, and 1898. Now in office.
" " president 1898. Now in office.
Kenney, William F., in common council, third ward, 1885.
King, Patrick, in common council, tenth ward, 1888 to 1890.
Kinsley, Benjamin E., in common council, seventh ward, 1882 to 1887.
" " alderman, ninth ward, 1888 to 1890.
Kinyon, John H., in common council, seventh ward, 1861.
Knight, Benjamin B., alderman, sixth ward, 1868 to 1871.
Knight, Jabez C., in common council, fourth ward, 1849 to 1852.
" " alderman, sixth ward, 1854 to 1858.
" " mayor, from June, 1859, to June, 1864.
" " license commissioner, from July 1, 1875, to June, 1880, and from June, 1883, to May, 1886.
*Knight, Robert, justice of the police court, June, 1832, to 1833, June, 1835, to 1836, June, 1839, to 1840.
" " collector of taxes, from June, 1837, to June, 1839.
" " city treasurer, from June 15 to July 27, 1840. Resigned.
" " alderman, sixth ward, 1842 to 1852.
Knight, William F., in common council, seventh ward, 1891 to 1895.
*Knowles, Edward P., in common council, first ward, 1835 to 1841.
" " alderman, first ward, 1841 to 1854.
" " mayor, from June, 1854, to June, 1855.
Knowles, John M., chief of police, from August 14, 1871, to September 13, 1877. Resigned.
" " superintendent of the Dexter Asylum, from September 8, 1877, to December 21, 1889. Resigned.
*Knowles, John P., city solicitor, from June, 1866, to September, 1867. Resigned.
*Knowles, William, justice of the police court, June, 1855, to June, 1857.
" " chief of police, from June, 1869, to June, 1870.
*Knowlton, Erastus F., in common council, sixth ward, 1833 to 1834, 1836 to 1837, and 1838 to 1840.

Lansing, George D., in common council, second ward, 1888 to 1892.
" " alderman, second ward, 1893 to 1896.
Lapham, Benjamin N., city solicitor, from June, 1863, to June, 1865.
" " in common council, third ward, 1869.
" " alderman, third ward, 1876.
*Larcher, John, in common council, second ward, 1837 to 1839.
Larned, Russell M., in common council, third ward, 1865.

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*Leach, Daniel, superintendent of public schools, from February 15, 1855, to September, 1884. Resigned.

Leonard, Thomas H., in common council, sixth ward, 1897. Now in office.

*Lester, John K., in common council, sixth ward, 1851 to 1852, and 1853 to 1859.

" " alderman, sixth ward, 1859 to 1862, 1864 to 1865, and 1866 to 1868.

*Lester, James C., in common council, sixth ward, January, 1884, to August 20, 1884. Died in office.

Lester, John Erastus, in common council, sixth ward, August 1, 1870, to June, 1871.

Lewis, Dexter B., in common council, first ward, 1851 to 1853. Second ward, 1875.

*Lewis, Palmer, alderman, seventh ward, 1860.

Lincoln, Eugene H., coroner, 1893. Now in office.

*Lincoln, Thomas, in common council, sixth ward, 1855 to 1862.

Lippitt, Peleg, W., in common council, ninth ward, 1881.

Little, Robert B., in common council, seventh ward, 1891.

" " alderman, seventh ward, 1892 to 1898.

" " president, 1896 to 1898.

*Lockwood, Moses B., in common council, third ward, 1845 to 1847.

" " water commissioner, from September 27, 1869, to May 13, 1872. Died in office.

Lougee, Stephen N., in common council, ninth ward, 1895 to 1897.

Lowe, Edwin, in common council, eighth ward, 1885 to 1888.

" " alderman, eighth ward, 1888 to 1891, and 1897. Now in office.

Luther, William H., license commissioner, from August 6, 1889, to April, 1890.

" " fire commissioner, from February 27, 1895. Now in office.

Lyman, Richard E., police justice, from January 16, 1896. Now in office.

*Lyon, Merrick, in common council, third ward, 1855.

*Macomber, Harrison G., in common council, tenth ward, 1878.

Magoon, Louie R., city auditor, *pro tem.*, from August 20, 1894, to January 17, 1895.

Maguire, John H., harbor master, 1890 and 1892 to 1894, and 1896.

*Mallett, Edward J., in common council, third ward, 1839.

*Man, George F., justice of the police court, June, 1836, to 1838.

*Manchester, Albert H., alderman, fifth ward, from June, 1873, to January 17, 1877.

*Manchester, Cyrus B., in common council, fifth ward, 1850 to 1852, and 1853.

" " alderman, fifth ward, 1855 to 1858.

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*Manchester, Israel G., in common council, sixth ward, 1838 to 1839, 1
1841, and 1842 to 1844.

*Manchester, Jacob, in common council, fifth ward, 1848 to 1852.

*Manchester, Robert, surveyor-general of lumber, from February 8, 1
February, 1870.

Manchester, Silas H., in common council, seventh ward, 1886 to 1888.

" " " " ninth ward, 1888 to 1890.

Manchester, Thomas Wilbur, city gauger, 1893.

Mansfield, Albert T., superintendent of public buildings, 1892 to 189
1897. Now in office.

*Marcy, Fred I., in common council, sixth ward, 1879 to 1887.

*Martin, Daniel, in common council, fifth ward, 1846 to 1849.

Martin, George E., in common council, second ward, 1879 to 1882.

" " alderman, 1882 to 1887.

Martin, Jacob H., in common council, fourth ward, 1848 to 1851.

*Martin, Joseph, in common council, fourth ward, 1849.

" " register of transfers, July 12, 1858, to June, 1860.

*Martin, Stephen, in common council, first ward, 1835.

*Martin, Sylvanus G., alderman, first ward, 1835 to 1837.

*Mason, Amasa, in common council, fifth ward, 1835 to 1837.

*Mason, Nathan, in common council, third ward, 1837 to 1840.

*Mason, Pardon, surveyor of highways for west side, from August 2
to June, 1833.

Mason, Stephen G., in common council, third ward, from 1852 to 1858.

Massie, John G., deputy city treasurer, from November 9, 1868, to J
18, 1886. Resigned.

" " commissioner of sinking funds, from October 7, 188
in office.

*Mathewson, Allen C., in common council, third ward, 1846 to 1848.

*Mathewson, Joseph B., in common council, fourth ward, 1861 to 18
in 1880.

Mathewson, Nathan F., in common council, fourth ward, 1857 to 1859.

*Mathewson, Parley M., in common council, first ward, 1847 to 18
second ward, from November 20, 1871, to January, 1875.

Mathewson, Rollin, in common council, third ward, 1849 to 1851.

*Mauran, Frank, in common council, second ward, 1863 to 1871.

*Mauran, Nathaniel S., harbor master, from August 15, 1853, to June,

*McAuslan, John, in common council, ninth ward, 1882.

" " " " seventh ward, 1888.

McCarthy, Dennis F., alderman, third ward, 1894. Now in office.

McCarthy, Dennis J., license commissioner, from April, 1890, to Apr
and April, 1892, to May 24, 1893.

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McCarthy, Patrick J., in common council, sixth ward, 1890, 1892, 1894.
McCaughin, Alexander A., in common council, tenth ward, 1889 to 1892.
McGann, James H., in common council, tenth ward, 1892 to 1894.
" " alderman, tenth ward, 1897. Now in office.
McGuinness, Edwin D., alderman, third ward, September 5, 1889, to 1893.
" " mayor, 1896 to 1898.
" " park commissioner, from May, 1897. Now in office.
*McGuy, Richard, in common council, third ward, 1892 to 1894.
McHale, Michael, in common council, third ward, 1890 to 1892.
McKenzie, Andrew, superintendent of hacks, from March, 1876, to August 16, 1887.
McKnight, Charles G., in common council, fourth ward, 1855 to 1856, and 1861 to 1862.
McNally, James, in common council, fourth ward, 1878 to 1888.
McOsker, Fergus J., in common council, tenth ward, 1881, and 1886 to 1888.
" " alderman, third ward, January, 1888, to August 5, 1889. Resigned.
" " license commissioner, from August 6, 1889, to April, 1890.
McWilliams, John, in common council, ninth ward, 1882 to June 21, 1883.
" " alderman, from June 21, 1883, to 1885.
*Merriam, John P., in common council, seventh ward, 1858.
*Messer, Asa, alderman, sixth ward, 1832 to 1834.
Messinger, Lyman B., in common council, eighth ward, 1894 to 1896.
Metcalf, Alfred, in common council, first ward, 1863 to 1866, aud 1867 to 1872.
" " alderman, first ward, 1875 to January, 1878, and from 1880 to 1883.
*Metcalf, Jesse, in common council, first ward, 1832 to 1835.
Metcalf, Jesse H., in common council, third ward, 1888 to 1892, and 1896.
*Metcalf, Joel, in common council, first ward, 1845 to 1847.
*Metcalf, Joseph G., in common council, first ward, 1841 to 1844.
Millen, William, in common council, fourth ward, 1890 to 1896.
Miller, Augustus S., in common council, first ward, 1885 to 1887,
" " " " ninth ward, 1887. President 1887.
*Miller, Frederick, in common council, first ward, 1855 to 1866.
" " " " second ward, 1876 to 1878.
*Miller, William, in common council, sixth ward, 1838.
Miller, William H., in common council, ninth ward, 1880 to 1882.
Millett, Thomas A., in common council, third ward, 1865 to 1866, and from January, 1875, to 1888.
Miner, Francis W., in common council, ninth ward, 1886.
Miner, Francis W., Jr., in common council, sixth ward, 1896. Now in office.

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Molloy, Timothy E., in common council, tenth ward, 1897. Now in office.

Monaghan, James C., in common council, tenth ward, January, 1884, to September 23, 1885. Resigned.

*Monroe, Jacob F., in common council, seventh ward, 1860 to 1863.

*Montgomery, Edwin, in common council, ninth ward, 1883 to 1886.

Moore, J. William, in common coumcil, seventh ward, 1895. Now in office.

Moran, James, city gauger, 1895. Now in office.

Morgan, William H., in common council, ninth ward, 1897. Now in office.

Morris, John, in common council, tenth ward, January, 1875, to January, 1878, 1879 to 1881, and from 1882 to 1884.

*Moulton, Ephraim B., in common council, sixth ward, from October 2, 1884, to 1888.

*Mowry, Charles C., in common council, second ward, 1844 to 1848.

Mowry, Elisha C., in common council, first ward, June, 1871, to January, 1877.

" " alderman, first ward, 1878 to 1880.

Mumford, Charles C., clerk of municipal court, from July 18, 1884, to July 9, 1885. Resigned.

*Mumford, Henry G., surveyor of highways, from June, 1833, to June, 1856.

" " city marshal, from June, 1833, to June, 1845.

*Mumford, James, collector of taxes, from June, 1839, to June, 1859.

*Mumford, James H., in common council, third ward, 1848 to 1852.

*Munroe, James H., inspector of steam boilers, from June, 1871, to January, 1891.

Murphy, Timothy Y., in common council, third ward, 1895.

*Murray, James T., in common council, seventh ward, June, 1871, to January, 1875.

*Newell, Stanford, alderman, first ward, 1833 to 1835.

*Nichols, Charles A., in common council, first ward, June, 1873, to January, 1875.

Nichols, Charles C., alderman, first ward, 1896 to 1898.

Nichols, George B., clerk of the municipal court, from June, 1868, to July 18, 1884.

Nichols, William J., in common council, third ward, from August, 1888, to 1890.

*Nicholson, William T., in common council, first ward, 1882.

" " alderman, first ward, 1883 to 1885.

Nixon, Thomas, license commissioner, from August, 1893. Now in office.

*Nisbet, William D., city auditor, from March 24, 1887, to August 20, 1894. Died in office.

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Nolan, James J., in common council, tenth ward, May 7, 1874, to January, 1876.

Norcross, George H., superintendent of hacks, from January 14, 1878. Now in office.

*Noyes, John L., in common council, third ward, 1856 to 1857.

Oakes, Charles B., superintendent of hacks, from June 7, 1875, to March, 1876.

O'Connell, Daniel J., in common council, third ward, 1894. Now in office.

*Olds, Franklin, sealer of weights and measures, from June, 1872, to April 17, 1884. Died in office.

Olney, Frank F., in common council, first ward, 1890 to 1892.
" " alderman, first ward, 1892 to 1894.
" " mayor, 1894 to 1896.
" " park commissioner, from January, 1895. Now in office.

*Olney, Stephen T., in common council, first ward, 1837 to 1838, and 1841 to 1844. President from 1842 to 1844.
" " city auditor, from August 9, 1847, to June, 1850.

*Olney, William, in common council, sixth ward, 1832.

*Olney, William P., justice of the police court, June, 1836, to 1838.

O'Reilly, Dennis, in common council, tenth ward, from September 23, 1885, to January, 1886.

*Ormsbee, John H., alderman, third ward, 1832 to 1836.

Otis, William N., in common council, seventh ward, 1898. Now in office.

Owen, Ezekiel, in common council, second ward, 1858 to 1860.

*Pabodie, Albert, city clerk, from December 7, 1843, to January 2, 1860. Died in office.

*Pabodie, Benjamin G., in common council, first ward, 1851 to 1854.

*Pabodie, William, in common council, sixth ward, 1834 to 1836, and 1844 to 1848.

*Padelford, Seth, in common council, fifth ward, 1837 to 1841, and second ward, 1851.

Paine, Charles E., city engineer, from June, 1869, to February 5, 1877.

Paine, Charles Edward, license commissioner, from April, 1890, to April, 1892, and from April, 1893, to May 24, 1893, and from August, 1893. Now in office.

*Paine, Daniel, alderman, fourth ward, 1862 to 1864.

*Paine, John J., city auditor, from 1854, to June, 1863.

Paine, Walter, Jr., justice of the police court, June, 1842, to 1844.
" " in common council, fourth ward, 1850 to 1855, 1857 to 1858, and 1865 to 1866. President, 1851.

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*Paine, Walter, Jr., alderman, fourth ward, 1858.

Paine William W., in common council, fourth ward, June, 1870, to January, 1876.

" " in common council, second ward, 1880.

*Palmer, Gideon, superintendent of Dexter Asylum, August 2, 1828, to March 25, 1850.

*Parish, Jeremiah S., in common council, second ward, 1878 to 1880.

Parkhurst, C. Frank, in common council, second ward, 1892 to 1896.

*Parkhurst, Charles H., city solicitor, from 1868, to August, 1874.

Parkhurst, Jonathan G., in common council, fifth ward, 1864 to 1868.

" " in common council, seventh ward, 1870.

" " public administrator, from February 16, 1882. Now in office.

" " fence viewer, 1887. Now in office.

Parsons, G. Richmond, in common council, first ward, 1898. Now in office.

*Parsons, Henry L., in common council, second ward, March 3, 1873, to January 18, 1877.

" " water commissioner, from January 18, 1877, to November 5, 1880.

*Patten, William S., in common council, second ward, 1842 to 1848. President, 1844.

*Payne, Abraham, in common council, second ward, 1852 to 1855.

*Payson, Thomas E., superintendent of the Dexter Asylum, from May, 1868, to August 24, 1877. Died in office.

*Payton, George W., in common council, sixth ward, 1862 to 1864.

Peabody, Fitz Herbert, in common council, third ward, 1880 to 1888.

*Pearson, Samuel, in common council, second ward, 1832.

*Peck, Allen O., clerk of the municipal court, from June, 1832, to June, 1834.

" " clerk of the common council, June, 1832, to June, 1834.

*Peck, George B., in common council, first ward, 1844 to 1846.

Peck, Leander R., in common council, ninth ward, 1889 to 1893.

*Peckham, Joseph C., city treasurer, from December 2, 1862, to August 20, 1868. Died in office.

*Peckham, Samuel W., justice of the police court, June, 1846, to 1855; June, 1857, to 1867.

" " alderman, third ward, 1845.

" " clerk of the municidal court, from July 24 to August 10, 1857. Resigned.

" " alderman, second ward, 1880 to 1882.

Pegram, John C., in common council, second ward, February 4, 1874, to January, 1876.

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†Pegram, John C., acting judge of the municipal court, from March 30 to April 23, 1889.

Perkins, Burmah E., in common council, ninth ward, 1895. Now in office.

Perkins, Charles H., in common council, eighth ward, 1866 to 1867, and 1871.

Perkins, George E., inspector of milk, January, 1891, to July 1, 1895. Resigned.

*Perkins, Stillman, in common council, eighth ward, 1866 to 1868.

*Perrin, Daniel, in common council, eighth ward, 1882 to 1885, and from 1886 to 1889.

Persons, Benjamin W., in common council, third ward, 1868 to 1869, 1870 to 1872.

" " alderman, third ward, 1877 to 1879.

Peterson, George P., in common council, second ward, 1898. Now in office.

Pettis, George H., in common council, ninth ward, June, 1872, to January, 1876.

" " sealer of weights and measures and superintendent of street signs and numbers, from March 10, 1890, to January 14, 1897.

*Phillips, Charles F., in common council, fourth ward, 1868 to 1869, and from June, 1871, to January, 1875.

Phillips, George R., in common council, fourth ward, 1876 to 1877, and from 1880 to 1888.

Phillips, Gilbert A., in common council, 1893 to 1897.

*Phillips, John F., in common council, sixth ward, 1835.

" " alderman, sixth ward, 1839 to 1842.

*Phillips, Stephen A., overseer of the poor, from October 16, 1854, to June, 1858.

*Peirce, Charles H., in common council, seventh ward, 1862 to 1864.

" " " " eighth ward, 1867.

*Pierce, Elisha W., in common council, seventh ward, 1880 to 1882.

Pierce, George L., in common council, fifth ward, 1886 to 1888.

" " " " fourth ward, 1888 to 1895.

" " alderman, fourth ward, 1895 to 1898.

" " commissioner of north burial ground, 1895. Now in office.

Pierce, James Lewis, in common council, second ward, 1876 to 1880.

*Pierce, John B., alderman, seventh ward, 1861 to April, 1864. Resigned.

*Pike, Asa, in common council, third ward, 1832.

*Pike, Charles F., in common council, fifth ward, 1855.

*Pitman, Joseph J., justice of the police court, June, 1845.

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† Appointed by the Mayor.

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Place, Raymond G., in common council, eighth ward, 1867 to 1870, from June, 1871, to January, 1875, and from 1876 to 1880.

Pomroy, Gorham P., in common council, fifth ward, June, 1872, to March 23, 1874. Resigned.

*Potter, Alfred, in common council, first ward, 1856 to 1860, and 1872.

*Potter, Alfred S., in common council, sixth ward, 1880 to 1887.

Potter, Charles A., inspector of milk, from August 29, 1895. Now in office.

Potter, Charles B., in common council, ninth ward, 1887.

" " " " sixth ward, 1888 to 1890, and 1891.

*Potter, Christopher C., in common council, sixth ward, 1846 to 1851. President, 1849.

*Potter, Jabez J., city marshal, from June, 1845, to June, 1848.

*Potter, Nathaniel F., in common council, sixth ward, 1844 to 1846.

Potter, Nathaniel F., Jr., in common council, sixth ward, 1870 to 1873.

" " alderman, sixth ward, from June, 1873, to October 26, 1876.

" " water commissioner, November 1, 1876, to November 5, 1880.

*Potter, Phineas, in common council, fifth ward, 1837.

" " alderman, fifth ward, 1838 to 1846.

*Potter, Roger Williams, in common council, third ward, 1830 to 1837.

Potter, William Knight, mayor, 1892 to 1894.

Potter, William Y., in common council, ninth ward, 1871 to 1873, and from 1875 to 1878.

*Pratt, Chester, in common council, fourth ward, 1848.

Pratt, William H., in common council, seventh ward, 1859 to 1861, and 1864.

*Prentice, John, in common council, fourth ward, 1860.

Presbrey, Allen A., in common council, fourth ward, 1897. Now in office.

Provan, James, in common council, tenth ward, 1877.

Randall, James, in common council, first ward, 1884 to 1888.

" " " " fourth ward, 1888 to 1890, 1896 to 1898.

*Rathbone, George S., alderman, fourth ward, 1852 to 1858.

*Rathbun, Joshua, overseer of the poor, from June, 1832, to June, 1836.

*Rathbun, Thomas R., alderman, seventh ward, April 6, 1864, to June, 1864.

*Raynsford, Edmund W., alderman, tenth ward, from May 7, 1874, to January, 1875, in 1876 and in 1878, also from January 1 to January 5, 1883. Died in office.

Read, Spencer P., in common council, eighth ward, 1888 to 1894.

Remington, Horace, alderman, seventh ward, 1898. Now in office.

*Remington, William B., in common council, sixth ward, 1865 to 1868.

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Remlinger, John L., in common council, sixth ward, 1891 to 1894, 1895 to 1897.

Reynolds, William K., in common council, sixth ward, 1887.

" " " " fifth ward, 1888 to March 7, 1895. Resigned.

" " alderman, fifth ward, from March 21, 1895. Now in office.

" " commissioner of the North Burial Ground, 1897. Now in office.

Rhodes, Edward S., in common council, fifth ward, 1855.

" " city sergeant, from June, 1861. Now in office.

" " city messenger, from June, 1861. Now in office.

Rhodes, Elisha H., assessor of taxes, from June, 1885. Now in office.

*Rhodes, James T., in common council, third ward, 1844.

Rice, Archibald B., in common council, sixth ward, 1859 to 1863, 1866 to 1867, and from June, 1873, to January, 1877.

*Rice, Fitz James, in common council, sixth ward, 1868 to 1870.

Richards, Henry F., in common council, fifth ward, from April 6, 1882, to January, 1886.

Richards, Herbert A., alderman, eighth ward, 1896.

Rickard, George A., in common council, ninth ward, 1878.

Rickard, William W., in common council, fifth ward, 1872 to January, 1877.

Rider, William B., in common council, fifth ward, November 7, 1854 to June, 1856, and from 1859 to 1862.

*Robbins, Charles T., in common council, first ward, 1855 to 1856; sixth ward, 1864 to 1865. President, 1855.

" " alderman, sixth ward, 1865.

*Robbins, Gilbert F., in common council, seventh ward, 1879 to 1882.

" " alderman, seventh ward, from 1882 to 1887. President from 1883 to 1887.

" " mayor, from January, 1887, to January, 1889.

*Roberts, William L., superintendent of hacks, August 16, 1877, to January 14, 1878.

Robinson, Charles P., in common council, from January, 1876, to January, 1879. President from January, 1877, to January, 1879.

*Rodman, William M., in common council, fifth ward, 1852.

" " mayor, from June 29, 1857, to June, 1859.

*Rockwell, Elisha H., in common council, seventh ward, 1889 to 1891.

Rogers, Charles D., in common council, first ward, 1885 to 1887.

" " alderman, first ward, 1887; second ward, 1888 to 1890.

Rogers, Horatio, justice of the police court, June, 1861, to June, 1862.

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Rogers, Horatio, in common council, third ward, 1866 to 1868, and from February 8, 1873, to January, 1875. President, August 10, 1874, to January, 1875. Record Commissioner, from March 6, 1891. Now in office.

*Rogers, John S., sanitary inspector, from July 23, 1883, to February 14, 1895. Died in office.

Root, Henry T., in common council, ninth ward, 1872.

" " alderman, ninth ward, 1872 to 1873, and from 1885 to 1887.

" " " seventh ward, 1888 to 1891.

Ross, Thomas B., in common council, third ward, 1883 to 1885.

" " alderman, third ward, 1885 to 1888.

Rounds, John M., in common council, second ward, 1881 to 1892.

" " alderman, second ward, 1892 to 1893.

*Rounds, Thomas M., in common council, fourth ward, 1867 to 1869, and in 1876; in common council, sixth ward, 1877 to 1882, and from January 13, 1886 to 1888.

Ryan, Timothy E., in common council, tenth ward, 1892 to 1897.

*Salisbury, Levi, clerk of the municipal court, from August 10, 1857 to June, 1868.

*Salisbury, Stephen S., in common council, third ward, 1855 to 1859, and 1862 to 1865.

Sampson, Charles F., in common council, fourth ward, 1875 to 1880.

" " alderman, fourth ward, from 1880 to 1890. President, 1887 to 1890.

Sanford, Albert, chief of police, from June, 1867, to June, 1869.

San Souci, Joseph O., in common council, tenth ward, 1894 to 1896.

*Saunders, Arnold, in common council, sixth ward, 1853.

Sawin, Eugene M., in common council, sixth ward, 1897. Now in office.

Sayles, Willard, city solicitor, from January 29, 1855, to June, 1855.

*Seagrave, Josiah, Jr., in common council, first ward, 1846.

*Seekell, Thomas, in common council, sixth ward, 1832.

Sellew, Clinton D., in common council, third ward, June, 1871, to February 10, 1877. Resigned.

" " secretary of the water commissioners and of the board of public works, from May 30, 1872, to February 11, 1889.

" " member of the board of public works, from March, 1884, to February 11, 1889.

" " secretary of the commissioner of public works, from February 11, 1889, to March, 1891. Resigned.

" " in common council, first ward, January, 1892 to 1896.

" " president of common council, 1893 to 1896.

Sharpe, Lucian, alderman, second ward, 1872.

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*Shattuck, William H., in common council, ninth ward, 1876 to 1882.
*Shaw, Allen, in common council, fifth ward, 1877.
Shaw, James, Jr., in common council, third ward, 1868 to 1870.
Sheahan, Dennis H., in common council, third ward, 1888 to 1890, 1894, and 1897. Now in office.
Shedd, J. Herbert, city engineer, from May 5, 1890, to May 3, 1897.
*Shepard, Thomas P., in common council, second ward, 1848 to 1851. President, 1850.
*Sheridan, James C., city sergeant, from June, 1848 to June, 1861.
Sherman, George R., sealer of weights and measures and superintendent of street signs and numbers, from January 14, 1897. Now in office.
Short, Hiram A., in common council, tenth ward, 1875.
*Simmons, Eben, in common council, fifth ward, 1862 to 1864.
*Simmons, Henry M., in common council, third ward, 1855 to 1857.
Sisson, Charles, in common council, second ward, 1896. Now in office.
*Sisson, Isaac C., in common council, first ward, 1860 to 1863, 1864 to 1865, and from June, 1866, to June, 1867. Died in office.
*Slade, George H., in common council, ninth ward, 1881 to 1883.
*Slade, Obadiah, in common council, seventh ward, 1863 to January 25, 1869.
" " superintendent of public buildings, from January 25, 1869, to October 1, 1886. Died in office.
Slade, Walter F., secretary of the commissioner of public works, from March, 1891. Now in office.
Slocum, Ziba O., alderman, ninth ward, 1891, to January 6, 1892.
Smith, Albert W., in common council, first ward, 1887.
*Smith, Amos D., in common council, fourth ward, 1842 to 1847.
Smith, Charles E., member of board of canvassers and registration, from March 7, 1895. Now in office.
*Smith, Charles M., superintendent of lights, from October 1, 1897, to April 14, 1879.
Smith, Charles Sydney, in common council, sixth ward, 1868 to 1871, and 1872.
" " in common council, seventh ward, 1888.
" " mayor, 1891.
Smith, Edwin A., in common council, eighth ward, from June, 1872, to January, 1877.
" " alderman, eighth ward, 1877.
*Smith, Ferdinand, in common council, seventh ward, 1880 to 1882.
*Smith, Francis M., in common council, ninth ward, 1868 to 1871.
*Smith, Henry S., in common council, tenth ward, 1876.
" " alderman, tenth ward, 1877.
*Smith, James Y., mayor, from June, 1855, to June 29, 1857.

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Smith, John P., in common council, eighth ward, 1896 to 1898.
Smith, Robert E., in common council, seventh ward, 1877.
" " alderman, seventh ward, 1878 to 1882.
" " " ninth ward, 1887.
" " " sixth ward, 1888 to 1891.
" " president in 1881 and 1890.
" " commissioner of public works, from March, 1891. Now in office.
Smith, Samuel N., in common council, first ward, 1883 to 1885.
*Smith, William A., in common council, first ward, 1833.
*Snow, Amos W., alderman, seventh ward, 1866 to 1873. President 1871 to 1873.
*Snow, Edwin M., in common council, second ward, 1855.
" " city registrar, from July, 1855, to December 22, 1888. Died in office.
" " superintendent of health, from July, 1856, to January, 1884.
*Snow, J. Lippitt, in common council, eighth ward, 1866 to 1869, and 1870.
" " alderman, eighth ward, 1875.
*Snow, Joseph T., in common council, seventh ward, 1868 to 1870.
Southwick, Isaac H., Jr., in common council, second ward, 1887 to 1890.
*Spencer, Christopher V., in common council, sixth ward, 1834.
*Spencer, Jonathan L., in common council, eighth ward, 1869 to 1871.
Spencer, William, in common council, fifth ward, 1856 to 1862, 1869 to 1871, and from August 19, 1874, to January, 1877.
" " alderman, fifth ward, 1871 to 1873, and 1877 to 1880.
*Spicer, George T., in common council, seventh ward, 1855.
" " alderman, fourth ward, from June, 1870, to August 17, 1879. Died in office.
Spicer, William A., in common council, seventh ward, 1882 to 1885.
Spink, Benjamin W., in common council, ninth ward, 1898. Now in office.
Spink, Joseph E., judge of the municipal court, from July 3, 1884. Now in office.
*Sprague, Albert G., in common council, fourth ward, 1856 to 1859.
Sprague, John L., license commissioner, from August, 1893. Now in office.
*Sprague, Samuel S., in common council, sixth ward, 1868 to 1870.
" " alderman, sixth ward, 1871 to 1873.
*Sprague, Thomas W., in common council, seventh ward, 1859 to 1861.
*Staples, William R., in common council, first ward, 1832.
" " justice of the police court, June, 1833, to 1835.
*Steere, Enoch, in common council, third ward, 1846 to 1850.
Steere, George A., in common council, fourth ward, 1877 to 1879.

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Steere, George A., deputy chief engineer of the fire department, from March, 1883, to July 2, 1884. Resigned.

" " chief engineer of the fire department, from July 2, 1884. Now in office.

*Steere, Thomas E., in common council, second ward, from June, 1872, to February 22, 1873. Died in office.

*Stilwell, Nicholas, in common council, third ward, July 17, 1837, to June, 1838.

*Stimson, John J., in common council, fourth ward, March, 1834, to June, 1836.

" " in common council, second ward, 1843 to 1848, and 1858 to 1859. President, 1847.

Stiness, Walter R., in common council, tenth ward, 1883.

*Stokes, Martin C., in common council, seventh ward, February 28, 1854, to June, 1855.

Stokes, William L., in common council, tenth ward, 1884 to 1886.

Stone, Alfred, in common council, second ward, 1885 to 1888.

*Stone, Charles M., in common council, seventh ward, 1854 to 1855, 1856 to 1857, and 1865.

Stone, Jason P., in common council, ninth ward, 1892 to 1895.

" " member of board of canvassers and registration, from March 7, 1895. Now in office.

Stone, Pardon M., in common council, sixth ward, 1851 to 1853, and seventh ward, 1865.

Studley, J., Edward, commissioner of North Burial Ground, from January 1, 1894, to February 5, 1894. Resigned.

Studley, John M., license commissioner, from April, 1891, to May 24, 1893, and from August, 1893. Now in office.

*Studley, Thomas E., in common council, third ward, 1879 to 1882.

Sturges, Howard O., in common council, first ward, 1896 to 1898.

*Swan, Samuel B., member of board of public works, from November 6, 1880, to March, 1883.

" " superintendent of lights, from April 14, 1879, to March 3, 1890. Died in office.

Swarts, Gardner T., in common council, fourth ward, 1897. Now in office.

Sweeney, Michael, in common council, sixth ward, 1888 to 1891.

*Sweet, Jesse B., in common council, first ward, 1835 to 1837.

*Sweet, Silas A. alderman, eighth ward, from June, 1872, to January, 1875.

" " in common council, 1876 to 1880.

*Sweet, Smith S., in common council, first ward, 1864 to 1871.

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*Taft, Cyrus, in common council, third ward, 1848.

Taft, Royal C., in common council, second ward, 1855 to 1857.

Talcott, James M., superintendent of the Providence Reform School, August 5, 1850, to May, 1853, and July 1, 1860, to July 15, 1876.

Tallman, Nelson, overseer of bridges, from January 25, 1875, to April 2, 1878.

*Tallman, William, in common council, fifth ward, 1832.

Tanner, Willard B., in common council, seventh ward, 1896 to 1898.

Tarbell, Horace S., superintendent of public schools, from September 1, 1884. Now in office.

*Taylor, Joseph W., chief of the fire department, July 11, 1853, to June, 1859.

" " register of transfers, from June, 1860, to September 20, 1876. Died in office.

*Taylor, John H., in common council, first ward, 1851 to 1859.

" " alderman, first ward, 1863.

*Teel, William H., license commissioner, from June, 1880, to June, 1883.

Tew, George P., alderman, ninth ward, 1868 to 1871, and 1876, also from January, 1883, to June, 1883. President, 1869 to 1871.

" " assessor of taxes, from June, 1883, to February 5, 1895.

Thomas, Charles L., in common council, seventh ward, 1864 to 1866.

Thompson, George E., highway commissioner, from January, 1879, to November 5, 1880.

*Thornton, William L., in common council, sixth ward, 1839 to 1842.

*Thurber, Dexter, surveyor of highways, from June to August 27, 1832.

" " alderman, first ward, 1832.

*Thurber, Edmund, in common council, first ward, 1849 to 1851.

*Thurber, Isaac, in common council, first ward, 1839 to 1844.

" " alderman, first ward, 1854 to 1856.

Thurston, Benjamin, in common council, sixth ward, 1893 to 1895.

" " alderman, sixth ward, 1895.

*Tillinghast, Charles E., in common council, third ward, 1851 to 1855.

*Tillinghast, Charles F., justice of the police court, 1832.

Tillinghast, John W., in common council, seventh ward, 1879 to 1886.

*Tillinghast, Stephen, city treasurer, from June, 1832, to June 15, 1840. Resigned.

*Tingley, Edmund W., in common council, third ward, 1855 to 1857.

*Tingley, Samuel, Jr., in common council, second ward, 1843 to 1847.

*Tobey, John F., in common council, second ward, 1866 to 1869.

" " alderman, third ward, 1879.

Tower, James H., in common council, fifth ward, 1876 to 1878, and 1879 to 1886.

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Trask, James K., in common council, ninth ward, 1882 to 1887.
" " in common council, sixth ward, 1888 to 1891, 1893, and 1895. Now in office.
Tripp, Benjamin, city treasurer, from August 24, 1868, to January 13, 1890.
*Tripp, Stephen, city treasurer, from November 27, 1843, to February 14, 1849. Died in office.
Truman, Nathan H., in common council, eighth ward, 1896.
*Trumbull, Henry, in common council, sixth ward, 1837.
*Tucker, James, Jr., in common council, sixth ward, 1855 to 1862.
*Tucker, Zachariah R., in common council, third ward, 1857 to 1860, 1870 to 1872.
*Tyler, Solomon, in common council, seventh ward, 1861.

*Updike, Cæsar A., in common council, first ward, 1859 to 1862.

*Van Slyck, Nicholas, in common council, fifth ward, from June, 1870, to August 10, 1874. President from June, 1873, to August 10, 1874. Resigned.
" " city solicitor, from August 10, 1874, to March 3, 1892. Died in office.
Vaughan, Henry W., inspector of milk, from October 17, 1870, to March 29, 1877.
Vaughan, William P., in common council, first ward, 1888 to 1896.
" " commissioner of North Burial Ground, from February 5, 1894, to 1896.
*Veazie, Joseph, in common council, first ward, 1841.
Viall, Nelson, chief of police, from June, 1866, to 1867.
*Viall, William, in common council, third ward, 1842 to 1846.
" " alderman, third ward, 1846.
Vincent, Walter B., alderman, first ward, 1898. Now in office.
Vose, George L., in common council, eighth ward, 1890 to 1896.
" " park commissioner, January 5, 1891, to January, 1895. Resigned.

Wade, Eben, in common council, fourth ward, 1840 to November 27, 1843. Resigned.
*Walcott, Edward, in common council, 1848.
*Wales, Samuel H., license commissioner, from July 1, 1875, to May, 1886. Died in office.
*Walker, Ebenezer W., in common council, sixth ward, 1853 to 1854, and seventh ward, 1859.
Walker, William D., mayor's clerk, from January 4, 1892, to January 1, 1894.

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*Warner, James M., in common council, fourth ward, 1832 to 1834.
Warren, James G., in common council, eighth ward, 1889.
*Washburn, Oliver A., Jr., in common council, third ward, 1859 to 1863.
*Waterman, John O., in common council, fifth ward, 1847.
*Waterman, Stephen, in common council, fourth ward, 1855 to 1860. President, 1856 to 1860; alderman, 1861.
" " in common council, second ward, 1869 to November 3, 1871.
Waterman, Thomas W., harbor master, 1884.
" " in common council, fifth ward, 1894 to 1898.
*Waterman, William H., in common council, first ward, 1847 to 1850.
" " alderman, first ward, 1856 to 1861.
Watson, Arthur H., in common council, second ward, 1883 to 1888.
" " " " first ward, 1888 to 1893. President, 1890 to 1893.
" " alderman, first ward, 1894 to 1896. President, 1895.
*Watson, Matthew, alderman, second ward, 1845 to 1847.
*Weaver, Lucius, in common council, seventh ward, February 28, to June, 1854.
*Webb, Henry A., city auditor, from June, 1863, to June 8, 1863. Resigned.
" " assessor of taxes, from June, 1866, to June, 1885.
*Webster, Henry L., in common council, first ward, 1854.
*Weeden, Benjamin D., in common council, fourth ward, 1832 to July 10, 1834. Resigned.
Weeden, William B., in common council, second ward, 1882 to 1884.
*West, Ambrose E., in common council, tenth ward, 1888.
" " alderman, tenth ward, 1889, and 1891 to 1895.
*West, George J., in common council, tenth ward, 1895, to July 21, 1896. Died in office.
West, Thomas F., in common council, tenth ward, 1897. Now in office.
*Westcott, Amasa S., in common council, first ward, 1854.
" " judge of the municipal court, from April, 1867, to July 3, 1884.
Westcott, Oren, in common council, first ward, 1875 to January, 1878.
" " commissioner of the North Burial Ground, from February 11, 1878, to January, 1895.
*Wheaton, James, alderman, third ward, 1832 to 1842.
*Wheaton, Samuel B., in common council, second ward, 1859 to October 8, 1860. Resigned.
*Wheeler, Bennett W., in common council, third ward, 1862.
*Wheeler, Edward R., in common council, sixth ward, 1881 to 1884.
*Whelden, Joseph, in common council, first ward, 1878 to 1882.

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Whipple, William L., in common council, tenth ward, 1884 to 1887, and in eighth ward, 1896 to 1898.

*Whitaker, William, in common council, fourth ward, 1862 to 1866.

" " elected alderman, fourth ward. Died January 3, 1879, prior to the inauguration.

*Whitaker, Thomas, alderman, second ward, 1847 to May, 1852. Died in office.

Whitcomb, Bainbridge A., in common council, June, 1873, to January, 1875.

White, Albert C., in common council, second ward, 1892 to 1893.

White, Stillman, in common council, first ward, June, 1866, to 1872, and from January, 1875, to January, 1879, and in 1882.

" " alderman, first ward, 1885 to 1887.

" " fire commissioner, from February 27, 1895. Now in office.

*White, Thomas, justice of the police court, June, 1834, to 1835, and June, 1836, to 1838.

Whitehouse, James G., in common council, fifth ward, 1881 to 1886.

Whiteley, Samuel, in common council, ninth ward, 1893 to 1898.

Whittemore, Gilbert E., truant officer, 1893. Now in office.

Wiggin, Oliver C., inspector of milk, April 26 to October 17, 1870. Resigned.

*Wightman, George W., overseer of the poor, from June, 1858, to January, 1890.

Wilbur, Pardon, in common council, second ward, from 1881 to 1883.

Wilcox, Dutee, alderman, ninth ward, 1877 to 1880.

*Willard, Hezekiah, in common council, fifth ward, 1839 to 1840, and 1841 to 1842.

*Williams, Caleb, in common council, sixth ward, 1832 to 1834.

" " alderman, sixth ward, 1834 to 1839.

*Williams, Edward S., in common council, fourth ward, 1842 to 1849.

Williams, N. Bangs, in common council, sixth ward, 1867.

*Williams, William A., in common council, fifth ward, 1852 to September, 1854. Died in office.

Williamson, Gustavus A., recorder of deeds, from June, 1866, to January 17, 1895.

Wilson, Charles A., in common council, fourth ward, 1888 to 1890.

Winship, Henry B., alderman, fourth ward, 1890 to 1895, and 1898. Now in office.

" " park commissioner, from January 5, 1891, to May, 1897.

*Winship, John B., surveyor of lumber, from February 10, 1873, to February, 1874.

*Winsor, Andrew, in common council, seventh ward, 1876 to 1880.

Winsor, Edwin, in common council, eighth ward, 1886 to 1895.

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Winsor, Ira, in common council, seventh ward, 1885 to 1888.
" " " " ninth ward, 1888 to 1895.
" " alderman, ninth ward. Now in office.
" " president 1898. Now in office.
" " fire marshal, from March 19, 1888. Now in office.

Winsor, James B., in common council, seventh ward, 1878.

*Winsor, James W., in common council, sixth ward, 1852.
" " " " seventh ward, 1857.

Winsor, Samuel A., in common council, seventh ward, February 28, 1854, to June, 1856.

Wood, George H., in common council, first ward, 1893 to 1896.

Wood, William H., in common council, fourth ward, from April 5, 1883, to January, 1885.

Woods, John Carter Brown, in common council, second ward, from February 1, 1877, to January, 1885. President 1881 to 1885.

*Young, Allen P., in common council, first ward, 1881.

*Young, Edward R., in common council, third ward, 1838 to 1840.

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REPORTS.

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TWENTY-FOURTH ANNUAL REPORT

OF THE

BOARD OF COMMISSIONERS OF SINKING FUNDS.

[Presented January 17, 1898.]

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

The Board of Commissioners of Sinking Funds make this their twenty-fourth annual report of the condition of the several sinking funds under their control, on the thirty-first day of December, 1897, and of the Henry Bowen Anthony prize fund, and North Burial Ground perpetual care fund:

The bonds and notes comprised in the funded debt, for the redemption of which, sinking funds are held by the commissioners, the purposes for which they were issued, the amounts of the sinking funds, and the increase of each are shown by the following table:

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Bonds.	Sinking Fund.			
	Debt.	Dec. 31, '96.	Increase, 1897.	Dec. 31, '97.
Due June 1, 1899, construction of sewers and city hall (4½ per cent.)	$600,000.00	$583,699.98	$59,854.17	$593,554.15
Due July 1, 1899, for public improvements *made since* 1855 (5 per cent.)	450,000.00	364,096.40	31,638.22	395,734.62
Due July 1, 1900, for same purpose (5 per cent.)	146,000.00	109,980.61	9,881.55	119,862.16
Due May 1, 1937, for public improvements (3½ per cent.)	640,000 00	.....	8,200.00	8,200.00
Due July 1, 1900, for the water works (5 and 6 per cent.)	4,000,000.00	962,381.84	31,844.52	994,226.36
Due July 1, 1906, for the water works (5 per cent.)	1,500,000.00	237,923.54	6,848.61	244,772.15
Due 1916 for the water works (3½ per cent.)	483,000.00	94,525.51	2,877.69	97,403.20
Due April 1, 1923, for water works (4 per cent.)	817,000.00	56,996.17	*	53,300.45
Due June 1, 1926, for water works (4 per cent.)	200,000.00	29,418.29	952.52	30,370.81
Due April 1, 1927, for water works (4 per cent.)	250,000 00	.....	36,231.07	36,231.07
Due July 1, 1909, for purchase of Davis estate (4 per cent.)	75,000.00	21,310.99	3,607.94	24,918.93
Due July 1. 1911, for school loan (4 per cent.)	300,000.00	94,417.64	15,570.42	109,988.06
Due May 1, 1925, for school loan (4 per cent.)	300,000.00	55,064.28	6,959.58	62,023.86
Due April 1, 1927, for school loan (4 per cent.)	500,000.00	.....	81,032.69	81,032.69
Due July 1, 1921, for sewer construction (4 per cent.)	1,125,000.00	189,980.79	12,915.63	202,896.42
Due March 1, 1922, for sewer construction (4 per cent.)	500,000.00	95,928.30	23,375.11	119,303.41
Due April 1, 1923, for sewer construction (4 per cent.)	500,000.00	65,173.12	21,119.40	86,292.52
Due May 1, 1925, for sewer construction (4 per cent.)	800,000.00	136,185.70	14,611.82	150,797.52
Due June 1, 1926, for sewer construction (4 per cent.)	500,000.00	68,914.62	23,135.78	92,050.40
Due April 1, 1927, for sewer construction (4 per cent.)	300,000.00	.....	49,645.57	49,645.57
Due March 1, 1922, purchase of land for parks (4 per cent.)	500,000.00	106,324.73	13,585.83	119,910.56
Due May 1. 1947, for park purposes (3½ per cent.)	674,000.00	.....	5,750.00	5,750.00
Due May 1, 1924, highway purposes (4 per cent.)	1,200,000.00	227,452.05	33,649.82	261,101.87
Due April 1, 1927, for highway purposes (4 per cent.)	500,000.00	.....	88,488.02	88,488.02
Totals	$16,860,000.00	$3,449,774.56	$581,775.96	$4,027,854.80
*Decrease April 1, 1923, water			3,695.72	
Net increase			$578,080.24	

* Decrease caused by premiums paid on bonds purchased.

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Sinking fund to redeem bonds due in 1899 (city hall and sewer loan). This fund amounts to $593,554.15, and is invested as follows:

City of Providence bonds due in 1899 (pub. imp.)	$121,000 00
City of Providence bonds due in 1900	30,000 00
City of Providence bonds due in 1899 (C. H. & S.)	3,000 00
City of Providence bonds due in 1947	400,000 00
Cash on hand	39,554 15
Total	$593,554 15

Sinking fund to redeem bonds due in 1899 (public improvement loan). This fund amounts to $395,734.62, and is invested as follows:

City of Providence bonds due in 1899 (pub. imp.)	$296,000 00
City of Providence bonds due in 1900 (pub. imp.)	24,000 00
City of Providence notes payable on demand	63,558 19
Cash on hand	12,176 43
Total	$395,734 62

Sinking fund to redeem bonds due in 1900 (public improvement loan). This fund amounts to $119,862.16, and is invested as follows:

City of Providence bonds due in 1900	$87,000 00
City of Providence notes payable on demand	25,000 00
Cash on hand	7,862 16
Total	$119,862 16

Sinking fund to redeem bonds due in 1937 (public improvement loan). This fund amounts to $8,200.00, and is invested as follows:

Cash on hand	$8,200 00
Total	$8,200 00

Sinking fund to redeem bonds due in 1900 (water loan). This fund amounts to $994,226.36, and is invested as follows:

City of Providence bond due in 1899 (pub. imp.)	$33,000 00
City of Providence bond due in 1900 (pub. imp.)	5,000 00
City of Providence bonds due in 1900 (water)	177,000 00
City of Providence bonds due in 1927 (highways)	500,000 00
City of Providence bonds due in 1947	274,000 00
Cash on hand	5,226 36
Total	$994,226 36

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Sinking fund to redeem bonds due in 1906 (water loan). This fund amounts to $244,772.15, and is invested as follows:

City of Providence bonds due in 1906	$25,000 00
City of Providence notes payable on demand	215,000 00
Cash on hand	4,772 15
Total	$244,772 15

Sinking fund to redeem bonds due in 1916 (water loan). This fund amounts to $97,403.20, and is invested as follows:

City of Providence bonds due in 1916	$15,000 00
City of Providence bonds due in 1937	80,000 00
Cash on hand	2,403 20
Total	$97,403 20

Sinking fund to redeem bonds due in 1923 (water loan.) This fund amounts to $53,300.45, and is invested as follows:

City of Providence bonds due in 1911	$3,000 00
City of Providence bonds due in 1921	7,000 00
City of Providence bonds due in 1923 (water)	3,000 00
City of Providence bond due in 1900 (water)	5,000 00
City of Providence bonds due in 1906	20,000 00
Cash on hand	15,300 45
Total	$53,300 45

Sinking fund to redeem bonds due in 1926 (water loan). This fund amounts to $30,370.81, and is invested as follows:

Cash on hand	$30,370 81
Total	$30,370 81

Sinking fund to redeem bonds due in 1927 (water loan). This fund amounts to $36,231.07, and is invested as follows:

Cash on hand	$36,231 07
Total	$36,231 07

Sinking fund to redeem bonds due in 1909 (Davis estate). This fund amounts to $24,918.93, and is invested as follows:

Cash on hand	$24,918 93
Total	$24,918 93

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Sinking fund to redeem bonds due in 1911 (school loan). This fund amounts to $109,988.06, and is invested as follows:

City of Providence bond due in 1911	$10,000 00
City of Providence bonds due in 1937	80,000 00
City of Providence note payable on demand	14,000 00
Cash on hand	5,988 06
Total	$109,988 06

Sinking fund to redeem bonds due in 1925 (school loan). This fund amounts to $62,023.86, and is invested as follows:

City of Providence note payable on demand	$50,000 00
Cash on hand	12,023 86
Total	$62,023 86

Sinking fund to redeem bonds due in 1927 (school loan). This fund amounts to $81,032.69, and is invested as follows:

City of Providence bonds due in 1937	$60,000 00
Cash on hand	21,032 69
Total	$81,032 69

Sinking fund to redeem bonds due in 1921 (sewer loan). This fund amounts to $202,896.42, and is invested as follows:

City of Providence bonds due in 1927 (sewer)	$120,000 00
City of Providence note payable on demand	50,000 00
Cash on hand	32,896 42
Total	$202,896 42

Sinking fund to redeem bonds due in 1922 (sewer loan). This fund amounts to $119,303.41, and is invested as follows:

City of Providence bonds due in 1922 (sewer)	$3,000 00
City of Providence bonds due in 1937	100,000 00
Cash on hand	16,303 41
Total	$119,303 41

Sinking fund to redeem bonds due in 1923 (sewer loan). This fund amounts to $86,292.52, and is invested as follows:

City of Providence bond due in 1923 (sewer)	$10,000 00
City of Providence bonds due in 1937	60,000 00
Cash on hand	16,292 52
Total	$86,292 52

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Sinking fund to redeem bonds due in 1925 (sewer loan). This fund amounts to $150,797.52, and is invested as follows:

City of Providence bonds due in 1927 (sewer)	$130,000 00
Cash on hand	20,797 52
Total	$150,797 52

Sinking fund to redeem bonds due in 1926 (sewer loan). This fund amounts to $92,050.40, and is invested as follows:

City of Providence bonds due in 1937	$80,000 00
Cash on hand	12,050 40
Total	$92,050 40

Sinking fund to redeem bonds due in 1927 (sewer loan). This fund amounts to $49,645.57, and is invested as follows:

City of Providence bonds due in 1900 (water)	$40,000 00
Cash on hand	9,645 57
Total	$49,645 57

Sinking fund to redeem bonds due in 1922 (park loan). This fund amounts to $119,910.56, and is invested as follows:

City of Providence bonds due in 1922 (parks)	$2,000 00
City of Providence bonds due in 1937	100,000 00
Cash on hand	17,910 56
Total	$119,910 56

Sinking fund to redeem bonds due in 1947 (park loan). This fund amounts to $5,750.00, and is invested as follows:

Cash on hand	$5,750 00
Total	$5,750 00

Sinking funds to redeem bonds due in 1924 (highway loan). This fund amounts to $261,101.87, and is invested as follows:

City of Providence bonds due in 1937	$80,000 00
City of Providence notes payable on demand	111,000 00
Cash on hand	70,101 87
Total	$261,101 87

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Sinking fund to redeem bonds due in 1927 (highway loan). This fund amounts to $88,488.02, and is invested as follows:

Cash on hand	$88,488 02
Total	$88,488 02

The Henry Bowen Anthony prize fund is held by the commissioners as an investment, the income of which is to be applied as directed in the will of the late Senator Anthony, as prizes for the public schools. This fund consists of one City of Providence four per cent. note for $3,000.00, payable on demand, which, with the cash on hand, makes the entire amount of the fund, December 31, 1897, $3,045.90.

The perpetual care fund of the North Burial Ground, which is held by the commissioners in trust, amounts to $123,577.28, and is invested as follows:

City of Providence notes payable on demand	$112,000 00
Eight shares Blackstone Canal National Bank (par value $25).	200 00
Five shares Providence and Worcester R. R. (par value $100)..	500 00
Ten shares Boston and Providence R. R. (par value $100)	1,000 00
Cash on hand	9,877 28
Total	$123,577 28

A personal examination of all the securities belonging to the sinking funds was made by the members of the board.

WILLIAM C. BAKER, Mayor.
D. L. D. GRANGER, City Treasurer.
PHILIP S. CHASE, City Auditor.
JOHN W. ANGELL, Chairman of the Committee on Finance.
JOHN G. MASSIE,
HENRY R. BARKER,
WILLIAM S. HAYWARD,

Board of Commissioners of Sinking Funds.

PROVIDENCE, January 17, 1898.

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ANNUAL REPORT

OF THE

COMMISSIONERS OF THE DEXTER DONATION.

[Presented December 18, 1897.]

To the Freemen of the City of Providence in Town Meeting Assembled:

The commissioners of the Dexter Donation present the following report of the property under their control for the year ending December 18, 1897:

Received for rent and assessments	$13,334 87
Interest received for the same	3,154 91
Total income	$16,489 78

The commissioners have held three meetings during the year for business connected with the donation. At their meeting held December 16, 1897, they made a personal examination of the securities belonging to the donation, and found them to be correct and in accordance with the report of the treasurer.

The freemen are referred to the report of the mayor and aldermen, and the account of the city treasurer, to be submitted this day, as to the details of the management of the asylum and farm, and as to the financial condition of the donation.

Respectfully submitted, by order of the commissioners,

R. B. LITTLE,
Acting Mayor and Chairman.

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ANNUAL REPORT

OF THE

BOARD OF ALDERMEN UPON THE DEXTER ASYLUM.

[Presented December, 18, 1897.]

CITY OF PROVIDENCE,
EXECUTIVE DEPARTMENT, CITY HALL,
December 18, 1897.

TO THE FREEMEN OF THE TOWN OF PROVIDENCE IN TOWN MEETING ASSEMBLED:

By direction of the board of aldermen I present the following report of the Dexter Asylum and farm for the year ending November 30, 1897:

The total expenses for the maintenance of the institution and farm for the year amounted to $32,705.99.

The total receipts for the year amounted to $32,705.99, of which the sum of $11,130.54 was received from the Dexter Donation Fund, and the balance of $21,575.45 was made up as follows:

Products of farm	$21,193 40
Board of inmates	246 00
Rags, bones, grease, and junk	102 23
Interest on deposit	33 82
Total	$21,575 45
Total from Dexter Donation Fund	11,130 54
	$32,705 99

The receipts from the farm products were $1,097.70 more than that of the preceding year, and the amount of the draft on the Dexter Donation Fund was $1,161.08 less than that of last year.

There were admitted to the Asylum during the past year by the overseer of the poor, 37 persons.

There have been discharged by the overseer of the poor, 29 persons, and 19 have died; total 48.

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The total number of inmates November 30, 1897, was 98, 57 males, and 41 females.

The average number for the year was 104.

The amount of money expended for the repairs of the Asylum walls and buildings, from October 1, 1896, to September 30, 1897, was $1,988.07, which was paid from the appropriation made by the city government.

All the greenhouses have been painted and a new front put on greenhouse number 2. They are now in excellent repair.

There have been twenty-five maple shade trees set out on the Hope Street sidewalk of the Asylum.

The stock on the farm has been increased.

The general yield of the farm has been very good, as shown by the income which has increased $1,200.93 more than that of last year, and the prices for farm products have been extremely low.

The number of deaths was 19, as compared with 12 last year.

The total number of inmates November 30, 1897, showed 11 less than the corresponding date in 1896.

The affairs of the institution have been managed judiciously and most satisfactory to the board of aldermen, and reflect credit upon both the superintendent and the matron, Mr. and Mrs. John T. Brown.

For a detailed statement the Freemen are referred to the report of the superintendent, which is submitted herewith.

Respectfully submitted for the Board of Aldermen,

R. B. LITTLE,
Acting Mayor.

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SEVENTY-FOURTH ANNUAL REPORT

OF THE

DEXTER DONATION.

[Presented December 18, 1897.]

The City Treasurer presents the following report of the condition of the Dexter Donation:

REAL ESTATE.

1. The Asylum and the farm on which it is located, containing thirty-eight and seven-tenths acres, with a piece of thatch near Central bridge, the whole under the care of the superintendent of the Asylum.

2. The Tavern Estate (so called) on North Main street, leased to J. B. Barnaby Estate for forty years, from November 1, 1871, rent renewable at the expiration of each period of ten years.

3. The lot and building next south of the Tavern Estate on North Main street, leased to Horace B. Knowles for forty years, from June 1, 1874, rent renewable at the expiration of each period of ten years.

4. The house and lot on Meeting street, leased to William V. Wallace for forty years, from November 1, 1871, rent renewable at the expiration of each period of ten years.

5. Four lots fronting on Cranston street, each 40 feet by 150 feet, also forty-eight lots fronting on Harrison and Hammond streets, each 50 feet by 100 feet, being part of the Dexter farm, all of which are leased.

6. The Dexter Training field, containing nine and one-third acres, situated west of Dexter street, reserved and appropriated for that purpose by the will of the late Ebenezer Knight Dexter.

7. A strip of land, formerly a thatch-right, on the north side of the Woonasquatucket river, which is lot No. 217 on assessor's plat 67, containing 15,344 square feet.

8. Land on Bacon street and on the south side of Doyle avenue, between Scott street and Olney street, called the "Dwight lands," a greater portion of which is leased to sundry persons.

9. A lot on High street, having a frontage of 78.7 feet, and containing 4,541 square feet, leased to James Hanley for forty years, from October 1, 1868, rent renewable at the expiration of each period of ten years.

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SCHEDULE OF RENTS.

Description of Lots.	Rent per Annum.
Lot on High street, leased to James Hanley for	$1,000 00
Tavern Estate (so called), on North Main street, leased to J. B. Barnaby estate for	800 00
House and lot on Meeting street, leased to William V. Wallace for	320 00
Lot and building next south of the Tavern estate, containing 1,670 feet of land, leased to Horace B. Knowles for	525 00
Two lots on Cranston street, leased for each	160 00
One lot on Cranston street, leased for,	170 00
One lot on Cranston street, leased for	158 00
Two lots on Harrison street, leased to the fire department, each	25 00
Nine lots on Harrison street, leased for each	75 00
Thirteen lots on Harrison street, leased for each	70 00
One lot on Harrison street, leased to public schools for	25 00
Three lots on Hammond street, leased to public schools for each	25 00
Nine lots on Hammond street, leased for each	65 00
Three lots on Hammond street, leased for each	80 00
Seven lots on Hammond street, leased for each	70 00
One lot on Hammond street, leased for	85 00
Twelve lots on Doyle avenue, leased for each	50 00
Ten lots on Doyle avenue, leased for each	53 00
Two lots on Doyle avenue, leased for each	57 50
Three lots on Doyle avenue, leased for each	55 00
Two lots on Doyle avenue, leased for each	60 00
Two lots on Doyle avenue, leased for each	70 00
Two lots on Doyle avenue, leased for each	75 00
One lot on Doyle avenue, leased for	65 00
One lot on Doyle avenue, leased for	43 50
Four lots on Doyle avenue, leased to public schools for each	35 00
Three lots on Doyle avenue, leased for	160 00
Four lots on Doyle avenue, leased for each	45 00
One lot on Scott street, leased to Toye & Holmes	112 00
Two lots on Bacon and Scott streets, leased for each	50 00
One lot on North Main and Bacon streets	125 00

In addition to the above rents a sum equal to the annual city tax is paid upon the respective estates by the lessees (except those leased to the city) which is added to the rent.

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DEXTER DONATION FUND.

Schedule of funds in hand December 15, 1897, consisting of the following described City of Providence bonds, etc.:

One registered 4½ per cent. bond, payable June 1, 1899, for.....	$5,000 00
Two registered 4½ per cent. bonds, payable June 1, 1899, $1,000.00 each.....	2,000 00
One City of Providence 4 per cent. note, No. 2,011, payable on demand, for.....	34,000 00
On deposit in the Industrial Trust Company.....	34,000 00
On deposit in the Providence Institution for Savings.....	2,231 38
	$77,231 38

ABSTRACT OF THE ACCOUNT OF THE DEXTER DONATION WITH THE CITY OF PROVIDENCE, D. L. D. GRANGER, CITY TREASURER.

1896.	CR.	
Dec. 15.	By balance on hand from old account.....	$16,520 53
1897.		
Dec. 15.	By amount received for rents and assessments.....	13,334 87
Dec. 15.	By amount received for interest.....	3,154 91
		$33,010 31
1897.	DR.	
Jan. 21.	To cash paid per order board of commissioners, printing.....	$16 42
Feb. 25.	To cash paid per order board of commissioners, ringing bells.....	4 00
March 8.	To cash paid per order board of aldermen, support of poor.....	4,211 13
March 8.	To cash paid per order board of commissioners, constructing sidewalks.....	45 82
June 7.	To cash paid per order board of aldermen, support of poor.....	436 50
June 14.	To cash paid per order board of aldermen, support of poor.....	1,225 85
July 6.	To cash paid per order board of aldermen, support of poor.....	432 00
Aug. 27.	To cash paid per order board of aldermen, support of poor.....	1,925 51
	Amount carried forward.....	$8,297 23

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	Amount brought forward	$8,297 23
Sept. 1.	To cash paid per order board of commissioners, constructing sidewalks	101 87
Sept. 9.	To cash paid per order board of commissioners, seal and rubber stamps	6 50
Sept. 13.	To cash paid per order board of aldermen, support of poor	1,118 89
Sept. 27.	To cash paid per order board of aldermen, support of poor	524 60
Dec. 13.	To cash paid per order board of commissioners, constructing sidewalks	3 02
Dec. 13.	To cash paid per order board of aldermen, support of poor	4,574 67
Dec. 13.	To cash paid per order board of commissioners, referee's fee	15 00
		$14,641 78
Dec. 15.	By balance carried to new account	$18,368 53
		$33,010 31

D. L. D. GRANGER,
City Treasurer.

15th December, 1897.

PROVIDENCE, December 15, 1897.

This certifies that I have this day examined the cash account of the Dexter Donation in the office of the City Treasurer, from December 15, 1896, to December 15, 1897, inclusive, and compared the vouchers therewith and find them to agree, showing a cash balance of $18,368.53 on hand at the latter date, which balance I have verified.

All rents due for the year ending December 15, 1897, have been collected and properly credited, with the exception of the following amount due from the following person :

*William Urquhart estate	$50 00

All assessments for the city tax of 1897 have also been collected and properly credited.

PHILIP S. CHASE,
City Auditor.

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*This bill was paid December 18, 1897, before the town meeting. D. L. D. G.

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REPORT

OF THE

SUPERINTENDENT OF THE DEXTER ASYLUM.

[Presented at the Town Meeting, December 18, 1897.]

To His Honor the Mayor and the Board of Aldermen:

The Superintendent of the Dexter Asylum presents the receipts and expenditures of that institution, also the expense and income of the farm, ending November 30, 1897:

There have been admitted to the Dexter Asylum during the past year, by the overseer of the poor, 37 persons.

There have been discharged by the overseer of the poor, from the Dexter Asylum, 29 persons, and 19 have died; total, 48.

Total number of inmates November 30, 1897, was 98, of which 57 were males and 41 females.

Average number of inmates for the year, 104.

The gross expenditures of the institution and farm during the past year were as follows:

Subsistence	$6,470 41
Agricultural department	5,123 50
Bedding, clothing, boots and shoes	1,216 50
Medical department	435 33
Fuel and light	2,671 70
Furniture and utensils	458 29
Salaries	14,892 38
Repairs, stock and material	651 89
Miscellaneous items	385 99
Water	400 00
Total	$32,705 99

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NET RECEIPTS.

From farm products	$21,193 40
board of inmates	246 00
rags, bones, grease, and junk	102 23
Interest on deposit	33 82
Total	$21,575 45
From Dexter Donation fund	11,130 54
Total	$32,705 99

DEXTER ASYLUM FARM IN ACCOUNT WITH THE DEXTER DONATION FUND.

FARM, DR.

The inventory of stock, farming utensils, November 30, 1896	$11,019 91
To cash paid for manure and fertilizer	968 50
hay and grain	2,375 62
seed and tools	460 70
boxes	109 50
horse shoeing	191 80
wagons and repairs	319 14
harness and repairs	56 40
To wages, including one-half of superintendent's salary	7,641 48
board of farm hands	1,560 00
water	100 00
stock bought	810 00
miscellaneous	111 51
Total	$25,724 56

FARM, CR.

By inventory of stock, farming implements, November 30, 1897	$12,113 00
cash from farm produce	21,193 40
milk, 8,668 gallons, at 20 cents per gallon	1,733 60
one man for chores, with horse	150 00
one-half amount paid for manure	484 25
vegetables, eggs, and poultry	730 34
labor of men and teams for improvements	115 00
Total income	$36,519 59
Total expenditures	25,724 56
Excess of income over expenditures	$10,795 03

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The total amount of money expended for the repairs of the Dexter Asylum walls and buildings, from October 1, 1896, to September 30, 1897, was $1,988.07, which was paid from the appropriation made by the city government for the year ending September 30, 1897, as follows:

D. H. Arnold, glass	$28 80
John T. Cottrell, lumber	122 71
James C. Goff, lime and cement	15 33
Hovey Lumber Co., lumber	88 20
New England Butt Co., castings	8 60
Starkweather & Williams, paints and oil	106 88
L. Vaughan & Co., glazing	40 40
Ira Winsor & Co., pipe and fittings	195 98
Allison K. Wilbur, carpenter work	385 00
Barker, Chadsey & Co., hardware	33 27
Oliver Johnson & Co., paints and oil	61 21
Providence Wall Paper Co., paper and hangings	7 51
Walter Coleman & Son, gilt ball	2 25
George F. Lewis, repairs on wall and cellar	148 25
Fred. W. Morse, galvanized gutter	9 36
George D. Lansing & Son, lumber	8 24
Joseph Bardsley, painting	620 00
	$1,988 07

During the past year all of the greenhouses have been painted. Green house number two has had a new front put on. On the Hope street sidewalk of the Dexter Asylum there have been twenty-five maple shade trees set out.

The stock on the farm has been increased as shown by the inventory of this year which is nearly eleven hundred dollars more than last year.

The general yield of the farm has been very good as shown by the income which has increased more than twelve hundred dollars more than last year and the prices this year for farm produce have been extremely low.

The following is a memorandum of farm produce sold from the Dexter Asylum, from December 1, 1896, to November 30, 1897:

Beans	$230 42
Beet greens	115 52
Beets	1,897 90
Cabbage	179 91
Amount carried forward	$2,423 75

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Amount brought forward	$2,423 75
Cabbage plants	2 00
Calves	39 00
Carrots	7 78
Celery	346 38
Celery plants	2 75
Cream	311 54
Cucumbers	2,055 67
Horse keeping	6 75
Lettuce	8,053 33
Lettuce plants	11 90
Mats	20 35
Melons	387 23
Milk	2,880 85
Neat cattle	127 70
Onions	405 64
Parsley	29 67
Parsnips	129 97
Peaches	11 00
Pears	618 60
Peas	4 90
Pigeon manure	14 16
Plums	3 00
Potatoes	675 52
Quinces	2 15
Raddishes	8 84
Rareripes	554 12
Rhubarb	284 25
Spinach	633 02
Squash	185 38
Sweet corn	333 17
Swine	226 06
Tomatoes	379 33
Tomato plants	11 98
Turnips	5 66
Total	$21,193 40

Respectfully submitted,

JOHN T. BROWN,

Superintendent.

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FIFTY-FIRST ANNUAL REPORT

OF THE

CITY AUDITOR

SHOWING THE

RECEIPTS AND EXPENDITURES

OF THE CITY OF PROVIDENCE,

FOR THE YEAR ENDING SEPTEMBER 30,

1897,

WITH A SCHEDULE OF THE CITY PROPERTY.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1897.

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REPORT.

City Auditor's Office,
Providence, January 3, 1898.

To the Honorable the City Council:

The undersigned complying with the requirements of Section 23, Chapter xiv., City Ordinances, presents the fifty-first annual statement of the receipts and expenditures of the City of Providence for the fiscal year beginning on the first day of October, 1896, and ending on the 30th day of September, 1897, together with a schedule of the city property and the leases thereof, also an inventory of the personal property belonging to the city.

Balance in the Treasury September 30, 1896		$242,301 81
The receipts from all sources from October 1, 1896, to September 30, 1897, inclusive, were:		
From estimated sources	$959,384 99	
From city tax of 1896	2,846,455 92	
From loans	4,834,365 90	
From all other sources	206,045 59	
		$8,846,252 40
Total receipts		$9,088,554 21
Paid by the City Treasurer during the fiscal year, as per vouchers on file in the City Auditor's office		8,860,997 35
Balance in the Treasury September 30, 1897		$227,556 86
The receipts from all sources, except from sinking funds, bonds, notes, etc., and cash in the Treasury September 30, 1896, that were applicable to the expenses of the city, were		3,668,426 71
The payments, other than for sinking funds, city notes and bonds, and the State's proportion of license money, were		4,819,718 35
Excess of payments over receipts from taxes, etc		$1,151,291 64

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The balance in the Treasury September 30, 1897, amounting to $227,556.86, is held subject to drafts upon the following accounts, viz.:

*Blackstone Park, Improvement Loan Account	$13,000 22
*Blackstone Park, Land Account	611 38
*Casino, Roger Williams Park	936 26
*Central Office Fire Alarm, etc	246 64
Committee on City Debt	23,254 79
Contingencies	16,674 06
Daniel Wanton Lyman Bequest for Elisha Dyer Monument	140 00
Davis Park, Improvement Loan Account	2,291 30
Dog Licenses	1,408 00
Estate of Harriet Howard	23 64
Estate of Frederick Nitch	261 40
Estate of Janett W. Pitt	1,121 23
Estate of William Simms	210 69
Estate of Lillian A. Taylor	12 89
*Highways, Special Account	18,567 73
Highways, Special Account, Receipts	6,673 64
North Burial Ground	3,220 86
North Burial Ground, Sinking Fund	2,585 74
Public Parks, General Account	2,588 30
Public Parks, Roger Williams Park	102 47
Public Works, Sidewalks and Curbing	11,515 55
Relief Fund for Firemen	1,240 00
Relief Fund for Policemen	1,238 59
Reservation Fund	6,329 00
Reserved Fund	6,187 76
Roger Williams Park, Improvement Loan Account	3,740 19
Roger Williams Park, Land Account	6,214 10
Roger Williams Park, Receipt Account	1,136 01
Rone Estate	16,148 44
*School Houses and Lots, Loan Account	6,240 82
Senator Anthony Prize Fund, Income	142 95
*Sewer Construction	1,261 68
State of Rhode Island, Proportion due State for Licenses	1,568 00
Tillinghast Donation	177 00
*Water Works, Construction	26,377 41
*Weybosset Bridge and river walls	44,108 12
	$227,556 86

* See statements on pages 3 and 4 of loans authorized but not issued.

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Statement of loans authorized by the City Council but not issued.

BLACKSTONE PARK, IMPROVEMENT LOAN ACCOUNT.

Cash on hand	$13,000 22
Loan authorized by Chapter 807 of the city ordinances, approved August 20, 1897, but not issued	35,000 00
Unexpended appropriation as per balance sheet	$48,000 22

BLACKSTONE PARK, LAND ACCOUNT.

Cash on hand	$611 38
Loan authorized by Chapter 578 of the city ordinances, approved July 11, 1894, but not issued	16,000 00
Unexpended appropriation as per balance sheet	$16,611 38

CASINO, ROGER WILLIAMS PARK.

Cash on hand	$936 26
Loan authorized by Chapter 753 of the city ordinances, approved November 21, 1896, but not issued	1,000 00
Unexpended appropriation as per balance sheet	$1,936 26

CENTRAL OFFICE FIRE ALARM SYSTEM, ETC.

Cash on hand	$246 64
Loan authorized by Chapter 790 of the ordinances, approved May 21, 1897, but not issued	24,000 00
Unexpended appropriation as per balance sheet	$24,246 64

HIGHWAYS, SPECIAL.

Cash on hand	$18,567 73
Loan authorized by Chapter 637 of the city ordinances, approved April 5, 1895, but not issued	35,000 00
Unexpended appropriation as per balance sheet	$53,567 73

SCHOOL HOUSES AND LOTS, LOAN ACCOUNT.

Cash on hand	$6,240 82
Loans authorized by Chapters 712 of the city ordinances, approved April 28, 1896, $125,000.00; 792, approved June 15, 1897, $100,000.00; and 805, approved July 26, 1897, $125,000.00, but not issued	350,000 00
Unexpended appropriation as per balance sheet	$356,240 82

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SEWER CONSTRUCTION.

Cash on hand		$1,261 68
Loans authorized but not issued, viz.:		
For land and right of way for improved sewerage system as authorized by city council resolutions Nos. 524, 169, and 196, series of 1887, 1888, and 1891, respectively	$20,000 00	
For construction of the improved sewerage system, authorized by resolution No. 663, approved October 14, 1892	530,000 00	
		$550,000 00
Unexpended appropriation as per balance sheet, appropriated as follows:		
Construction of lateral sewers	$121,094 87	
Construction of improved sewerage	411,779 91	
Land and right of way for improved sewerage	18,386 90	
		551,261 68

WATER WORKS CONSTRUCTION.

Cash on hand	$26,377 41
Loan authorized by city council resolutions No. 102, series of 1893, $7,500.00; No. 402, series of 1896, $35,691.32, but not issued	43,191 32
Unexpended appropriation as per balance sheet	$69,568 73

WEYBOSSET BRIDGE AND RIVER WALLS.

Cash on hand	$44,108 12
Loan authorized by Chapter 781 of the city ordinances, approved April 20, 1897, but not issued	245,000 00
Unexpended appropriation as per balance sheet	$289,108 12

RECEIPTS.

The receipts not included in the City Auditor's estimates and considered extraordinary, and which were not applicable to the ordinary expenses of the city, amounted to $5,179,393.69, and were as follows:

City Licenses. Proportion paid State of Rhode Island	$3,248 00	
Proportion payable to State of Rhode Island December 10, 1897.	981 75	
		$4,229 75
Committee on the City Debt		21,662 10
Estate of William Simms		210 69
Highway Loan, due April 1, 1927	$500,000 00	
Premium on Sale of Bonds	77,500 00	
		577,500 00
Amount carried forward		$603,602 54

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Amount brought forward		$603,602 54
Highways Special, Receipt Account		18,042 13
Liquor Licenses. Proportion paid State of Rhode Island	$47,091 25	
Proportion payable to State of Rhode Island December 10, 1897	586 25	
		47,677 50
Loan Account		1,401,725 90
North Burial Ground		18,518 43
North Burial Ground, Sinking Fund		343 20
Park Loan, due May 1, 1947		674,000 00
Public Improvement Loan, due May 1, 1937		640,000 00
Public Works, Sidewalks and Curbing		35,731 61
Reservation Fund		1,599 00
Roger Williams Park, Receipt Account		1,261 28
School Houses and Lots, Loan Account		15 00
School Loan, due April 1, 1927	$500,000 00	
Premium on Sale of Bonds	69,650 00	
		569,650 00
Senator Anthony Prize Fund, Income		144 79
Sewer Assessments		95,702 91
Sewer Loan, due April 1, 1927	$300,000 00	
Premium on Sale of Bonds	45,715 00	
		345,715 00
Sewer Construction		1,503 03
Sinking Fund, Water Loan, due 1900		87,074 95
Special Highway Loan, renewals		340,000 00
Water Loan, due April 1, 1927	$250,000 00	
Premium on Sale of Bonds	35,775 00	
		285,775 00
Water Works Construction		11,311 42
		$5,179,393 69

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The sum received from taxes and other sources applicable to the ordinary expenses of the city, amounting to $3,666,858.71, was derived from the following sources:

RECEIPTS.

City Engineer's Department	$35 27
a City Licenses, proportion due the city	15,051 25
City Taxes, 1896	2,846,455 92
Dog Licenses	9,938 00
Fire Department	189 45
Interest	49,754 47
b Liquor Licenses, proportion due the city	140,687 50
Miscellaneous	82,401 53
Police Department	17,219 77
Public Buildings	298 98
Public Lights	77 60
Public Parks, General Account	132 50
Public Parks, Roger Williams Park	4,969 31
c Public Schools	37,222 18
Public Works, Bridges	2,543 65
Public Works, Highways	8,761 00
Public Works, Sewer Maintenance	1,175 86
Rents	7,580 03
Streets and Sewers	2,510 96
Support of the Poor	6,169 52
d Water Rents	408,603 43
Water Maintenance	25,080 53
	$3,666,858 71

a. In addition to this amount the sum of $4,229.75 was received and has been or is to be paid to the State of Rhode Island under the provisions of Chapter 103, General Laws of Rhode Island.

b. In addition to this amount the sum of $47,677.50 was received and has been or is to be paid to the State of Rhode Island under the provisions of Chapter 102, General Laws of Rhode Island.

c. In addition to this amount the sum of $9,671.80 was transferred to Public Schools from Dog Licenses May 11, 1897.

d. In addition to this amount the sum of $87,074.95 was received and paid to the Sinking Fund, for Water Loan due 1900; the same being the excess of receipts over cost of maintenance, and interest for the Water Works for the fiscal year.

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The payments considered extraordinary and not included in the City Auditor's annual estimates of expenses, amounted to $5,017,-238.34, and were as follows:

PAYMENTS.

Blackstone Park, Improvement Loan Account		$3,736 28
Casino, Roger Williams Park		29,054 97
Central Office Fire Alarm, etc		753 36
Dalrymple Memorial Boat House		2,928 81
Davis Park, Improvement Loan Account		34,243 06
Dog Licenses, Damages paid under Dog Law		394 40
Eddy Street estate, adjoining City Yard		69,340 00
Highway Loan, due April 1, 1927, premium paid to Commissioners of Sinking Funds		77,500 00
Highways, Special Account		115,943 40
Highways, Special Account (Receipt Account)		17,793 74
Loan Account		3,182,214 05
North Burial Ground, Revenue		20,559 87
Public Works, Sidewalks and Curbing	$26,898 49	
Less appropriation for curbing city lots	2,000 00	
		24,898 49
Red Bridge, new		402 55
Roger Williams Park, Improvement Loan Account		148,149 45
Roger Williams Park, Land Account		6,815 40
School Houses and Lots, Loan Account		294,533 41
School Loan due April 1, 1927, premium paid to Commissioners of Sinking Funds		69,650 00
Senator Anthony Prize Fund, Income		48 00
Sewer Assessments, Assessments Refunded		62 58
Sewer Construction		233,907 26
Sewer Loan, due April 1, 1927, premium paid to Commissioners of Sinking Funds		45,715 00
Special Highway Loan, city notes paid		380,000 00
State of Rhode Island, Licenses		51,145 75
Water Loan, due April 1, 1927, premium paid to Commissioners of Sinking Funds		35,775 00
Water Works Construction		140,781 63
Weybosset Bridge and River Walls		30,891 88
		$5,017,238 34
Gross amount of the expenditures		$8,860,997 35
Extraordinary expenditures, as per foregoing statement		5,017,238 34
Amount of the ordinary expenditures of the city		$3,843,759 01

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The ordinary expenses of the city for the fiscal year, as per the foregoing statement, amounted to $3,843,759.01. The ordinary expense for the year ending September 30, 1896, amounted to $3,774,902.54, showing an apparent increase in the ordinary expenditures for the year 1896–1897, of $68,856.47.

In this report the Sinking Fund Water Loan due 1900, $87,074.95, is treated as other sinking funds, *i. e.*, included in the ordinary expenses. Adding said sinking fund to the foregoing statement, which has been the practice heretofore, and a comparison will show a decrease in the ordinary expenses of $18,218.48.

The following items are included in the ordinary expenses, viz.:

Paid notes issued for Highways, Special Account (annual appropriation)	$40,000 00
Paid Commissioners of Sinking Funds for the redemption of the City Debt	250,424 95
Paid interest on the City Debt	735,882 13
	$1,026,307 08

The estimated receipts for the year ending September 30, 1898, as per the City Auditor's report to the City Council, submitted March 15, 1897, including the receipts from Liquor Licenses, were	$730,000 00
City Tax, 1897, (exclusive of sidewalks and curbing) as assessed July 1, 1897	2,875,653 92
	$3,605,653 92

The sums appropriated in an ordinance approved September 30, 1897, making appropriations for the support of the city government for the financial year ending September 30, 1898, amounted to $3,625,582.32.

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CITY DEBT.

The funded debt, September 30, 1896, amounted to	$14,196,000 00	
The floating debt, September 30, 1896, amounted to	2,336,181 10	
		$16,532,181 10
The funded debt, September 30, 1897, amounted to	$17,020,000 00	
The floating debt, September 30, 1897, amounted to	555,692 95	
		17,575,692 95
Increase in the city debt during the year		$1,043,511 85
The increase in the funded debt during the fiscal year was		$2,824,000 00
The decrease in the floating debt during the fiscal year was		1,780,488 15
Increase in the gross amount of the city debt during the year		$1,043,511 85
Amount of gross debt, September 30, 1896		$16,532,181 10
Amount of Sinking Funds, September 30, 1896	$3,208,320 85	
Amount to credit of Committee on the City Debt, September 30, 1896	1,153 23	
Excess of water rents credited Sinking Fund Water Loan due 1900, September 30, 1896	89,018 51	
		3,298,492 59
Net debt, September 30, 1896		$13,233,688 51
Amount of gross debt, September 30, 1897		$17,575,692 95
Amount of Sinking Funds, September 30, 1897	$3,711,799 81	
Amount to credit of Committee on the City Debt, September 30, 1897	23,254 79	
Excess of water rents credited Sinking Fund Water Loan due 1900, September 30, 1897	87,074 95	
		3,822,129 55
Net debt, September 30, 1897		$13,753,563 40
The net amount of the city debt, September 30, 1896, was		$13,233,688 51
The net amount of the city debt, September 30, 1897, was		13,753,563 40
Increase in the net amount of the city debt during the year		$519,874 89

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FUNDED DEBT.

The amount of the funded debt, September 30, 1896, was.....		$14,196,000 00
Additional loans issued, viz.:		
Highway Loan, due April 1, 1927.....	$500,000 00	
Park Loan, due May 1, 1947.....	674,000 00	
Public Improvement Loan, due May 1, 1937.	640,000 00	
School Loan, due April 1, 1927.....	500,000 00	
Sewer Loan, due April 1, 1927.....	300,000 00	
Water Loan, due April 1, 1927.....	250,000 00	
		2,864,000 00
		$17,060,000 00
Loans paid exclusive of loans renewed:		
Special Highway Loan, authorized by Chapter XCI.....	$20,000 00	
Special Highway Loan, authorized by Chapter CCXLIII.....	20,000 00	
		40,000 00
Funded debt, September 30, 1897.....		$17,020,000 00
Funded debt, September 30, 1896.....		14,196,000 00
Increase in funded debt for the year ending September 30, 1897.		$2,824,000 00

FLOATING DEBT.

The amount of the floating debt September 30, 1896, was.....	$2,336,181 10
Additional loans issued, viz:	
For Blackstone Park, Improvement Loan Account.....	15,000 00
For Casino, Roger Williams Park.....	14,000 00
For Central Office Fire Alarm System, etc.....	1,000 00
For Davis Park, Improvement Loan Account.....	34,000 00
For Eddy Street Estate.....	69,340 00
For Roger Williams Park, Improvement Loan Account..	50,000 00
For Sewerage.....	225,000 00
For School Houses and Lots, Loan Account.....	250,000 00
For Highways.....	90,000 00
For June Payment State Tax.....	151,692 95
For Water Works Construction.....	55,000 00
For Weybosset Bridge and River Walls.....	75,000 00
	$3,366,214 05
Notes paid during the year.....	2,810,521 10
Floating debt, September 30, 1897.....	$555,692 95
Floating debt, September 30, 1896.....	2,336,181 10
Decrease in floating debt during the year	$1,780,488 15

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The following is a statement of the bonds and notes of the funded and floating debt paid during the year, and for what account they were issued:

Highway notes paid with part of the proceeds of Highway Loan Bonds due April 1, 1927		$490,000 00
School notes paid with part of the proceeds of School Loan Bonds due April 1, 1927		487,000 00
Sewerage notes paid with part of the proceeds of Sewer Loan Bonds due April 1, 1927		300,000 00
Special Highway Loan, Chapter 91		20,000 00
Special Highway Loan, Chapter 243		20,000 00
State Tax		151,692 95
Water Works Construction notes paid with part of the proceeds of Water Works Loan Bonds due April 1, 1927		165,000 00
Blackstone Park, Improvement Loan Account	$25,000 00	
Blackstone Park, Land Account	19,000 00	
Davis Park, Improvement Loan Account	40,000 00	
Roger Williams Park, Improvement Loan Account	275,000 00	
Roger Williams Park, Land Account	215,000 00	
Paid with proceeds of Park Loan Bonds due May 1, 1947		574,000 00
Eddy Street Estate	$69,340 00	
Electric Wires, Placing underground	29,988 15	
Filling Cove Basin	52,000 00	
New Central Police Station	150,000 00	
Red Bridge, New	60,500 00	
Refunding City Hall and Sewer Loan of 1895	91,000 00	
State House site	190,000 00	
Paid with proceeds of Public Improvement Loan Bonds due May 1, 1937		642,828 15
		$2,850,521 10
Money hired during the year in the Funded and Floating Debt		$3,894,032 95
City notes paid as per foregoing statement		2,850,521 10
Increase in the amount of the gross debt during the year		$1,043,511 85

The notes representing the floating debt, September 30, 1897, were issued for and are chargeable to the following accounts:

Blackstone Park, Improvement Loan Account	$15,000 00
Casino, Roger Williams Park	14,000 00
Central Office Fire Alarm System, etc	1,000 00
Davis Park, Improvement Loan Account	34,000 00
Highways	65,000 00
School Houses and Lots, Loan Account	75,000 00
Sewer Construction	125,000 00
State Tax	151,692 95
Weybosset Bridge and River Walls	75,000 00
Balance of Loan Account as per Ledger	$555,692 95

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The Special Highway Loan issued under authority of Chapter 243 of the city ordinances is included in the funded debt, as a sinking fund has been provided by the city council for its redemption.

The following loans have been authorized by the city council, but have not been issued, and are not included in the city debt, viz.:

(See pages 3 and 4 for statement in detail.)

Blackstone Park, Improvement Loan Account	$35,000 00
Blackstone Park, Land Account	16,000 00
Casino, Roger Williams Park	1,000 00
Central Office Fire Alarm System, etc	24,000 00
Highways	35,000 00
School Houses and Lots, Loan Account	350,000 00
Sewer Construction	550,000 00
Water Works Construction	43,191 32
Weybosset Bridge and River Walls	245,000 00
	$1,299,191 32

SINKING FUNDS.

The amount under control of the Commissioners of Sinking Funds, September 30, 1897, was.	$3,711,799 81	
The amount under control of the Committee on the City Debt, September 30, 1897, was	23,254 79	
Excess of Water Rents for year ending September 30, 1897, credited Sinking Fund, Water Loan, due 1900	87,074 95	
		$3,822,129 55
The amount under control of the Commissioners of Sinking Funds, September 30, 1896, was.	$3,208,320 85	
The amount under control of the Committee on the City Debt, September 30, 1896, was	1,153 23	
Excess of Water Rents for year ending September 30, 1896, credited Sinking Fund, Water Loan, due 1900	89,018 51	
		3,298,492 59
The increase during the year in the amount of the funds to be applied towards the payment of the City Debt was		$523,636 96

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The following statement shows the increase in the existing sinking funds since the 30th day of September 1896:

City Hall and Sewer Loan, due in 1899	$41,827 63
Public Improvement Loan, due in 1899	31,377 47
Public Improvement Loan, due in 1900	9,823 26
Public Improvement Loan, due in 1937	.....
Water Loan, due in 1900	38,889 76
Water Loan, due in 1906	11,909 80
Water Loan, due in 1916	3,734 02
Water Loan, due in 1923	2,636 20
Water Loan, due in 1926	909 31
Water Loan, due in 1927	36,001 07
Davis Estate Loan, due in 1909	3,898 30
School Loan, due in 1911	17,017 76
School Loan, due in 1925	7,354 72
School Loan, due in 1927	69,919 32
Sewer Loan, due in 1921	13,533 64
Sewer Loan, due in 1922	14,302 94
Sewer Loan, due in 1923	12,993 75
Sewer Loan, due in 1925	197 09
Sewer Loan, due in 1926	12,082 20
Sewer Loan, due in 1927	46,003 89
Park Loan, due in 1922	14,375 95
Park Loan, due in 1947	.....
Highway Loan, due in 1924	34,757 56
Highway Loan, due in 1927	77,989 76
	$501,535 40

The bonds and notes comprised in the funded debt, for the redemption of which sinking funds are held by the commissioners, the purposes for which they were issued, and the amounts of the sinking funds, September 30, 1897, are shown by the following table:

	DEBT.	SINKING FUND.
Bonds due June 1, 1899, construction of sewers and city hall (4 1-2 per cent.)	$600,000 00	$567,461 05
Bonds due July 1, 1899, for public improvements *made since* 1855 (5 per cent.)	450,000 00	381,359 42
Bonds due July 1, 1900, for public improvements (5 per cent.)	146,000 00	114,913 08
Bonds due May 1, 1937, for public improvements (3 1-2 per cent.)	640,000 00	.....
Bonds due July 1, 1900, for the water works (5 and 6 per cent.)	4,000,000 00	*987,467 16
Amounts carried forward	$5,836,000 00	$2,051,200 71

* Includes $87,074 95 excess of water rents for the year ending September 30, 1897.

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	DEBT.	SINKING FUND.
Amounts brought forward	$5,836,000 00	$2,051,200 71
Bonds due July 1, 1906, for water works (5 per cent.)	1,500,000 00	244,688 48
Bonds due Sept. 1, 1916, for water works (3 1-2 per cent.)	483,000 00	95,997 97
Bonds due April 1, 1923, for water works (4 per cent.)	817,000 00	58,274 01
Bonds due June 1, 1926, for water works (4 per cent.)	200,000 00	30,178 01
Bonds due April 1, 1927, for water works (4 per cent.)	250,000 00	36,001 07
Bonds due July 1, 1909, for purchase of Davis estate (4 per cent.)	75,000 00	21,779 79
Bonds due July 1, 1911, for school loan (4 per cent.)	300,000 00	96,199 26
Bonds due May 1, 1925, for school loan (4 per cent.)	300,000 00	56,225 06
Bonds due April 1, 1927, for school loan (4 per cent.)	500,000 00	69,919 32
Bonds due July 1, 1921, for sewer construction (4 per cent.)	1,125,000 00	174,707 32
Bonds due March 1, 1922, for sewer construction (4 per cent.)	500,000 00	107,942 76
Bonds due April 1, 1923, for sewer construction (4 per cent.)	500,000 00	76,608 63
Bonds due May 1, 1925, for sewer construction (4 per cent.)	800,000 00	133,177 23
Bonds due June 1, 1926, for sewer construction (4 per cent.)	500,000 00	80,646 28
Bonds due April 1, 1927, for sewer construction (4 per cent.)	300,000 00	46,003 89
Bonds due March 1, 1922, purchase of land for parks (4 per cent.)	500,000 00	108,400 28
Bonds due May 1, 1947, park purposes (3 1-2 per cent.)	674,000 00	.....
Bonds due May 1, 1924, highway purposes (4 per cent.)	1,200,000 00	232,934 93
Bonds due April 1, 1927, highway purposes (4 per cent.)	500,000 00	77,989 76
Totals	$16,860,000 00	$3,798,874 76

Funded Debt as per the foregoing statement	$16,860,000 00
Add Special Highway Loan, for which appropriation is provided annually, to meet the payment of the same: Chapter 243	160,000 00
Total Funded Debt	$17,020,000 00

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WATER LOANS.

Under authority conferred by the General Assembly of Rhode Island and Chapter 773 of the city ordinances, approved March 2, 1897, bonds dated April 1, 1897, maturing in thirty years, bearing four per cent. interest, to the amount of $250,000.00, were sold for construction account of the Providence Water Works. The bid of $114.31 per $100.00, made by the Industrial Trust Company of Providence, was accepted, realizing a premium of $35,775.00, which was paid to the Board of Commissioners of Sinking Funds for the redemption of this loan.

Statement of loans authorized, amounts issued, etc.:

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding.	Expended.	Unexpended.
Chapter 640, January Session, 1866.....	$2,000,000 00	$2,000,000 00	$2,000,000 00	$2,000,000 00	.....
Chapter 784, January Session, 1869.....	2,000,000 00	2,000,000 00	2,000,000 00	2,000,000 00	.....
Chapter 430, January Session, 1875.....	1,000,000 00	1,000,000 00	1,000,000 00	1,000,000 00	.....
Chapter 528, January Session, 1876.....	1,000,000 00	1,000,000 00	1,000,000 00	1,000,000 00	.....
Chapter 577, January Session, 1886.....	500,000 00	500,000 00	500,000 00	500,000 00	.....
Chapter 945, January Session, 1891.....	500,000 00	500,000 00	500,000 00	500,000 00	.....
Chapter 1226, January Session, 1893.	500,000 00	250,000 00	250,000 00	223,622 59	26,377 41
	$7,500,000 00	$7,250,000 00	$7,250,000 00	$7,223,622 59	$26,377 41

Total loans authorized.....	$7,500,000 00
Bonds outstanding.....	7,250,000 00
Amount authorized and not hired.....	$250,000 00
Loans authorized by City Council but not issued (see statement on page 4).....	43,191 32
Amount which the City Council may authorize to be hired....	$206,808 68

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PROVIDENCE WATER WORKS.

The following is a statement of the receipts and expenses of the Providence Water Works to September 30, 1886, and during each fiscal year since that date; also the amount paid to Commissioners of Sinking Funds as excess of receipts over the cost of maintenance and interest:

YEARS.	Cost of Construction.	Cost of Maintenance.	Interest on Temporary Loans.	Net Floating Debt Each Year.	Interest on Bonds.	Bonds Issued.	Receipts for Water Rents.	Sale of Material, etc. Maintenance Acct.	Sale of Material, etc. Construction Acct.	Discount and Premium on Bonds.	Paid Sinking Funds excess of receipts over mainten'ce and inter'st.
To 1886	$5,445,519 19	$893,650 56	$362,703 45	.....	$3,711,406 97	$5,983,000 00	$3,240,837 71	$515,351 55	.....	$24,738 97 DR.	.....
1887	106,255 97	67,412 08	.....	$120,000 00	300,105 00	.....	339,429 69	16,200 66	$1,672 87	.....	.....
1888	139,925 35	74,975 32	3,370 00	210,000 00	300,105 00	.....	349,858 73	17,217 98	2,251 56	.....	.....
1889	110,701 96	74,805 96	9,778 75	323,000 00	300,105 00	.....	379,204 73	17,816 38	2,720 66	.....	$12,331.38
1890	86,967 68	80,315 40	16,157 77	398,000 00	300,105 00	.....	403,164 91	19,099 05	3,103 00	.....	25,185 79
1891	175,366 12	80,288 36	20,461 81	570,000 00	300,105 00	.....	401,948 34	20,748 45	2,229 11	.....	21,841 62
1892	129,505 25	84,782 45	27,493 76	691,500 00	300,105 00	.....	410,397 51	26,816 12	4,275 74	.....	24,832 46
1893	94,119 43	98,870 30	34,223 14	2,691 32	300,105 00	817,000 00	419,350 07	34,616 73	3,949 02	49,053 13 CR.	25,768 36
1894	134,019 44	99,997 01	876 36	135,691 32	332,785 00	.....	430,154 27	31,210 44	4,163 87	.....	27,706 34
1895	81,775 93	100,200 88	6,391 08	185,691 32	332,785 00	.....	469,636 47	28,007 67	4,005 32	.....	58,267 18
1896	126,587 21	80,575 08	9,410 31	110,000 00	332,785 00	200,000 00	484,696 88	27,092 02	12,700 81	29,220 00 CR.	89,018 51
1897	140,781 63	88,557 99	4,340 97	.....	340,785 00	250,000 00	495,678 38	25,080 53	11,311 42	35,775 00 CR.	87,074 95
	*$6,771,525 16	$1,819,931 41	$495,207 40	.....	$7,151,281 97	$7,250,000 00	$7,824,357 69	$779,257 58	$52,383 38	$89,309 16 CR.	$372,026 59

* The cost of Maintenance to September 30, 1876, viz.: $194,689.25, should be added to Construction, to agree with the Auditor's Monthly Statement to the City Council.

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Expenses to September 30, 1897:

Cost of construction	$6,771,525 16
Cost of maintenance	1,819,931 41
Interest on temporary loans	495,207 40
Interest on bonds	7,151,281 97
	$16,237,945 94

Receipts to September 30, 1897:

Receipts for Water Rents	$7,824,357 69	
Premium, less discount on bonds	89,309 16	
Sale of material, etc., Maintenance Account	779,257 58	
Sale of material, etc., Construction Account	52,383 38	
		$8,745,307 81
Net cost of the Water Works, for construction, maintenance, interest on bonds and temporary loans, and including all receipts except increase of sinking funds, to September 30, 1897		7,492,638 13
Bonds issued to September 30, 1897		$7,250,000 00
Gross debt on account of Water Works		$7,250,000 00
Less sinking funds, after crediting the excess of receipts over expenses for 1896-1897		1,452,606 70
Net debt of Water Works, September 30, 1897		$5,797,393 30

The following is a statement of the excess of receipts over and above the expenses of managing the Water Works for the financial year ending September 30, 1897:

Amount received from Water Rents	$495,678 38	
Amount received from sale of material, etc., Maintenance Account	25,080 53	
		$520,758 91
Interest paid on the Funded Debt, Water Loans	$340,785 00	
Interest paid on the Floating Debt, Water Loans	4,340 97	
Cost of maintenance of the Water Works	88,557 99	
		433,683 96
Excess of receipts over and above the expenses of managing the Water Works for 1896-97		$87,074 95

The excess of receipts from water rents over and above the expenses of managing the Water Works for the financial year ending September 30, 1897, including the interest on bonds and loans issued on Construction Account, as per the foregoing statement, was $87,074.95, which sum was paid to the Commissioners of Sinking Funds to be credited to Sinking Fund for Water Loan due in 1900, in accordance with Section 11 of Chapter LII. of the city ordinances as amended by Chapter CDXLIII., approved January 31, 1893.

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SEWER LOANS.

Under authority conferred by the General Assembly of Rhode and Chapter 771 of the city ordinances approved March 2, 1897, bonds dated April 1, 1897, maturing in thirty years, bearing four per cent. interest, to the amount of $300,000.00 were sold for sewer construction account. The bid of $115.50 per $100.00 for $250-000.00 made by the Board of Commissioners of Sinking Funds, and the bid of $113.93 per $100.00 for $50,000.00 made by Kidder, Peabody & Co., and Blodgett, Merritt & Co., were accepted realizing a premium of $45,715.00 which amount was paid to the Board of Commissioners of Sinking Funds for the redemption of this loan.

Statement of loans authorized, amounts issued, etc.

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding.	Expended.	Unexpended.
Chapter 433, January Session, 1875.....	$1,000,000 00	$1,000,000 00	$400,000 00	$1,000,000 00	.....
Chapter 384, May Session, 1883.....	2,000,000 00	2,000,000 00	2,000,000 00	2,000,000 00	.....
Chapter 942, January Session, 1891.....	2,000,000 00	1,725,000 00 *125,000 00	1,725,000 00 *125,000 00	1,725,000 00 123,738 32	..... $1,261 68
Chapter 1231, January Session, 1893..	1,500,000 00	.....	.....	.....	.....
	$6,500,000 00	$4,850,000 00	$4,250,000 00	$4,848,738 32	$1,261 68

* In Floating Debt.

Total loans authorized.....		$6,500,000 00
Less amount paid.....		600,000 00
		$5,900,000 00
Bonds outstanding.....	$4,125,000 00	
Notes in floating debt.....	125,000 00	
Total amount outstanding.....		4,250,000 00
Amount authorized and not hired		$1,650,000 00
Loans authorized by the City Council but not issued (see statement on page 4).....		550,000 00
Amount which the City Council may authorize to be hired.....		$1,100,000 00

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SEWER CONSTRUCTION.

The following is a statement of the cost of construction and maintenance of the public sewers built under the present system of sewerage, to September 30, 1886, and during each fiscal year since that date:

YEARS.	Cost of Construction.	Cost of Maintenance.	Interest on Temporary Loans.	Net Floating Debt Each Year.	Interest on Bonds.	Bonds Issued.	Received from Assessments.	Sale of Material. Construction Account.	Sale of Material. Maintenance Account.	Premium on Bonds.
To 1886.....	$1,834,997 23	$198,395 49	$125,128 26	.....	$471,005 22	*$1,000,000 00	$581,881 30	.....	.....	$11,920 00
1887.....	64,736 61	24,992 78	2,838 40	$117,000 00	48,215 42	.....	26,675 75	.....	.....	.....
1888.....	144,814 15	23,748 29	8,707 58	217,000 00	48,324 42	.....	43,939 96	$170 44	$663 02	.....
1889.....	90,890 88	24,277 87	8,353 47	317,000 00	48,448 98	.....	33,080 34	432 63	566 42	.....
1890.....	144,538 78	19,318 34	18,132 49	517,000 00	48,289 80	.....	27,484 08	92 18	461 63	.....
1891.....	569,159 16	24,826 82	26,986 17	263,000 00	48,293 34	1,125,000 00	28,885 35	301 98	748 82	18,787 50
1892.....	831,949 05	26,002 32	3,150 00	300,000 00	103,339 95	500,000 00	64,957 00	2,402 45	926 67	41,445 00
1893.....	796,742 70	34,336 94	6,539 72	300,000 00	113,300 60	500,000 00	170,895 17	2,363 21	701 40	28,070 00
1894.....	621,558 24	31,243 10	16,118 06	670,000 00	133,402 22	.....	249,853 68	176 74	473 40	.....
1895.....	496,939 28	33,967 81	27,893 06	360,000 00	133,396 45	800 000 00	217,635 31	2,927 67	636 72	111,616 00
1896.....	389,683 94	39,485 11	18,000 00	200,000 00	135,000 00	500,000 00	137,016 20	1,641 22	704 45	68,450 00
1897.....	233,949 78	36,154 91	8,527 78	125,000 00	155,000 00	300,000 00	95,702 91	1,503 03	1,175 86	45,715 00
	$6,219,959 80	$516,749 78	$270,374 99	$125,000 00	$1,486,016 40	*$4,725,000 00	$1,677,007 05	$12,011 55	$7,058 39	$326,003 50

* $600,000.00 of this amount paid July 1, 1895.

NOTE. — The sum of $28,966.24 paid for sewers in 1879 should be added to Construction account, and the sum of $461.55 returned by the City Engineer in 1884, as overdraft on account of his expenses to Europe, deducted, to agree with the Auditor's monthly statement to the City Council.

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IMPROVED SEWERAGE.

The following is a statement of the amounts charged to sewer construction to September 30, 1897, and included in the previous table under the head of cost of construction, for payments made on account of the improved sewerage system, viz.:

Years.	*a.* Cost of Construction Improved Sewerage.	*b.* Expense of City Engineer to Europe.	*b.* Printing and Engraving for City Engineer's Report.	*c.* Expense of Commission to examine City Engineer's plan of Sewerage System.	*d.* Expense of Borings, Soundings, etc.	*e.* Cost of Land for right of way and Sewerage Purposes.
1884	.....	$3,194 01				
1885	.....	.....	$6,544 82			
1886	.....	.....	.....			
1887	.....	.....	.....	$4,132 99	$319 91	
1888	.....	.....	.....	.....	4,353 84	$100,492 13
1889	.....	.....	.....	.....	81 02	17,912 54
1890	$57,950 05	.....	.....	.....	70 61	6,075 50
1891	464,614 67	.....	.....	.....	.....	2,983 84
1892	582,450 63	.....	.....	.....	.....	1,149 09
1893	426,875 22	.....	.....	.....	.....	3,000 00
1894	416,038 76	.....	.....	.....	.....	.....
1895	427,948 13	.....	.....	.....	.....	.....
1896	282,945 63	.....	.....	.....	.....	.....
1897	129,397 00	.....	.....	.....	.....	.....
	$2,788,220 09	$3,194 01	$6,544 82	$4,132 99	$4,775 38	$131,613 10

a. See City Council resolution, number 406, approved July 15, 1889.
" " " " " 663, " October 14, 1892.

b. " " " " " 73, " February 23, 1884.

c. " " " " " 418, " September 17, 1886.

d. " " " " " 420, " September 10, 1887.

e. " " " " " 524, " October 26, 1887.
" " " " " 160, " April 20, 1888.
" " " " " 196, " April 14, 1891.

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SEWER CONSTRUCTION.

Expenses to September 30, 1897:

Cost of construction		$6,219,959 80
Cost of maintenance		516,749 78
Interest on temporary loans		270,374 99
Interest on bonds		1,486,016 40
		$8,493,100 97

Receipts to September 30, 1897:

Receipts for sewer assessments	$1,677,007 05	
Sale of material, etc., Maintenance Account	7,058 39	
Sale of materials, etc., Construction Account	12,011 55	
Premium on Bonds	326,003 50	
		$2,022,080 49
Net cost for construction, maintenance, interest on bonds and temporary loans, and including all receipts except increase of sinking funds, to September 30, 1897		$6,471,020 48
Bonds issued to September 30, 1897		4,725,000 00
Temporary loans issued to September 30, 1897		125,000 00
		$4,850,000 00
Less bonds paid July 1, 1895		600,000 00
Gross debt on account of Sewers (exclusive of sinking funds)		$4,250,000 00

The sum expended for the care and maintenance of sewers is provided for in the city tax.

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HIGHWAY LOANS.

Under authority conferred by the General Assembly of Rhode Island and chapter 770 of the city ordinances approved March 2, 1897, bonds dated April 1, 1897, maturing in thirty years, bearing four per cent. interest, to the amount of $500,000.00 were sold for highway construction account. The bid of $115.50 per $100.00 made by the Board of Commissioners of Sinking Funds for the whole amount was accepted realizing a premium of $77,500.00 which amount was paid to the Board of Commissioners of Sinking Funds for the redemption of this loan.

Statement of loans anthorized, amounts issued, etc.

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding.	Expended.	Unexpended.
Chapter 658, May Session, 1887	$200,000 00	$200,000 00	.....	$200,000 00	.....
Chapter 870, January Session, 1890	300,000 00	300,000 00	$160,000 00	300,000 00	.....
Chapter 941, January Session, 1891	700,000 00	700,000 00	700,000 00	700,000 00	.....
Chapter 1227, January Session, 1893	500,000 00	500,000 00	500,000 00	499,816 47	$183 53
Chapter 1399, January Session, 1895	600,000 00	500,000 00 *65,000 00	500,000 00 *65,000 00	546,615 50	18,384 20
	$2,300,000 00	$2,265,000 00	$1,925,000 00	$2,246,432 27	$18,567 73

* In Floating Debt.

Total loans authorized		$2,300,000 00
Less amounts paid		340,000 00
		$1,960,000 00
Bonds outstanding for the payment of which sinking funds are provided	$1,700,000 00	
Notes outstanding for which appropriations are made annually for payment of same	160,000 00	
Notes issued, in floating debt	65,000 00	
		$1,925,000 00
Amount authorized and not hired		$35,000 00

The notes outstanding, issued under the authority of Chapter 870, amount to $160,000.00 and are included in the Funded Debt, the sum of $20,000.00 being appropriated annually to meet the payment of the same.

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PARK LOANS.

Under authority conferred by the General Assembly of Rhode Island and Chapter 783 of the city ordinances, approved May 4, 1897, bonds dated May 1, 1897, maturing in fifty years, bearing three and one-half per cent. interest, to the amount of $674,000.00 were issued to the Board of Sinking Fund Commissioners of Providence at par for park purposes.

Statement of loans authorized, amounts issued, etc.

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding.	Expended.	Unexpended.
Chapter 873, January Session, 1890.....	*a* $75,000 00	$75,000 00	$75,000,00	$75,000 00	.....
Chapter 943, January Session, 1891 / Chapter 943, May Session, 1891....	*b* 500,000 00	500,000 00	500,000 00	500,000 00	.....
Chapter 1229, January Session, 1893..	*c* 100,000 00	40,000 00 *34,000 00	40,000 00 *34,000 00	71,708 70	$2,291 30
Chapter 1230, January Session, 1893..	*d* 300,000 00	300,000 00	300,000 00	300,000 00	.....
Chapter 1291, January Session, 1894..	*e* 100,000 00	84,000 00	84,000 00	83,388 62	611 38
Chapter 1401, January Session, 1895..	*f* 150,000 00	150,000 00	150,000 00	143,785 90	6,214 10
Chapter 425, September Session, 1896..	*g* 150,000 00	100,000 00 *15,000 00	100,000 00 *15,000 00	96,259 81 1,999 78	3,740 19 13,000 22
	$1,375,000 00	$1,298,000 00	$1,298,000 00	$1,272,142 81	$25,857 19

Total loans authorized..... $1,375,000 00

Bonds outstanding..... $1,249,000 00

Notes in floating debt..... 49,000 00

$1,298,000 00

Amount authorized and not hired..... *h.* 77,000 00

* In Floating Debt.

a. Purchase of Davis estate.

b. Purchase of land for and construction of parks.

c. Improvement of Davis Park and purchase of land for same.

d. Improvement of Roger Williams and Blackstone Parks, and erection of art museum at Roger Williams Park.

e. Purchase of land for city parks.

f. Purchase of land and payment of judgments for land condemned, for park purposes.

g. Completion of work upon Roger Williams Park and Blackstone Park and Blackstone Boulevard Parkway.

h. Distributed as follows:

Improvement of Davis Park,	$26,000 00
Purchase of land Blackstone Park,	16,000 00
Completion of work, Blackstone Park and Blackstone Boulevard Parkway,	35,000 00
	$77,000 00

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SCHOOL LOANS.

Under authority conferred by the General Assembly of Rhode Island and Chapter 772 of the city ordinances approved March 2, 1897, bonds dated April 1, 1897, maturing in thirty years, bearing four per cent. interest, to the amount of $500,000.00 were sold for school purposes. The bid of Kidder, Peabody & Co. and Blodget, Merritt & Co. for the whole amount at $113.93 per $100.00 was accepted, realizing a premium of $69,650.00, which amount was paid to the Board of Commissioners of Sinking Funds for the redemption of this loan.

Statement of loans authorized, amounts issued, etc.:

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding.	Expended.	Unexpended.
Chapter 944, January Session, 1891.....	$300,000 00	$300,000 00	$300,000 00	$300,000 00	.....
Chapter 1228, January Session, 1893.	300,000 00	300,000 00	300,000 00	300,000 00	.....
Chapter 1400, January Session, 1895.	400,000 00	400,000 00	400,000 00	366,831 02	
Chapter 364, January Session, 1896.....	300,000 00	100,000 00 *75,000 00	100,000 00 *75,000 00	186,031 00	$6,240 82
Chapter 510, May Session, 1897	225,000 00	.....	.....	15,897 16	
	$1,525,000 00	$1,175,000 00	$1,175,000 00	$1,168,759 18	$6,240 82

Total loans authorized.....		$1,525,000 00
Bonds outstanding.....	$1,100,000 00	
Notes in floating debt.....	75,000 00	
		1,175,000 00
Amount authorized and not hired		$350,000 00

* In Floating Debt.

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The expenditures for school purposes from Loan Account to September 30, 1897, were $1,168,759.18, which classified shows the following result:

	Expended for Land.	Expended for Buildings.	Total.
Primary Grade	$56,956 08	$497,105 19	$554,061 27
Grammar Grade	16,769 59	219,933 78	236,703 37
High and Manual Training Grade	108,662 34	269,332 20	377,994 54
Total	$182,388 01	$986,371 17	$1,168,759 18

PUBLIC IMPROVEMENT LOAN.

Under authority conferred by the General Assembly of Rhode Island and Chapter 782 of the city ordinances, approved May 4, 1897, a Public Improvement Loan was issued to the Board of Commissioners of Sinking Funds of Providence, at par, dated May 1, 1897, maturing in forty years, bearing three and one-half per cent. interest, amounting to $640,000.00. The proceeds of this loan paid notes in the floating debt which had been issued for the following purposes:

For putting electric wires under ground	$29,229 18
For filling cove basin	52,000 00
For State House site	190,000 00
For New Central Police Station	150,000 00
For bridge over Seekonk river (New Red Bridge)	58,430 82
For refunding portion of City Hall and Sewer Loan of 1895	91,000 00
For purchase of land on Eddy street	69,340 00
	$640,000 00

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COMMITTEE ON THE CITY DEBT.

By the first section of Chapter VIII of the city ordinances, "Committees of the City Council," it is ordained that there shall be annually appointed by the City Council, immediately after the organization of the city government, a Joint Standing Committee on the City Debt, which shall consist of the Mayor, the President of the Board of Aldermen, the President of the Common Council, the Chairman of the Joint Standing Committee on Finance, and one member of the Common Council, to be appointed by the President thereof.

The duties and powers of the said Committee are defined in the following ordinance:

EXTRACT FROM CHAPTER XIV OF THE ORDINANCES IN RELATION TO THE FINANCES.

SECTION 48. All balances of money remaining in the treasury from general appropriations, and all taxes unpaid at the end of any financial year, all receipts in money on account of the sale of real estate or buildings of any description now belonging, or which may hereafter belong to the city, excepting the real estate now or hereafter belonging to the North Burial Ground or Roger Williams Park; all receipts on account of the principal sum of any bond or note now owned, or which may hereafter be owned by the city, shall be, and the same are hereby appropriated to the payment or purchase of the city debt, and the City Auditor shall annually pass to the credit of the Committee on the City Debt, all receipts in money, the proceeds of either of the sources before mentioned; and the same so passed to the credit of said Committee shall be drawn from the treasury of the city for the payment or purchase of the city debt, in the same manner as other money is drawn, and in no other mode and for no other purpose whatever.

SEC. 49. The Committee on the City Debt are hereby authorized to lend, on interest, to the City Treasurer, any amount so passed to their credit as aforesaid, which may not be immediately wanted for the purchase or redemption of said debt.

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The following is a statement of the financial operations of the Committee on the City Debt, for the fiscal year ending September 30, 1897:

BALANCES.

The amount of the unexpended balances of the general appropriations at the close of the fiscal year, as per the City Auditor's Monthly Statement, dated October 27, 1897, was.....		$34,557 40
Less the following balances carried forward to new account, 1897-1898, viz.:		
Contingencies.....	$16,674 06	
Public Parks, General Account.....	2,588 30	
Public Parks, Roger Williams Park.....	102 47	
Public Works, Sidewalks and Curbing.....	11,515 55	
Relief Fund for Firemen.....	1,240 00	
Relief Fund for Policemen.....	1,238 59	
		33,358 97
Amount of unexpended balances credited to the Committee on City Debt.....		$1,198 43
The following receipts were passed to the credit of the Committee, in accordance with section 48 of the ordinance on finance:		
City Tax of 1891, with interest.....		4 38
City Tax of 1892, with interest.....		4 13
City Tax of 1863, with interest.....		24 85
City Tax of 1894, with interest.....		903 08
City Tax of 1895, with interest.....		3,572 71
Interest on balances.....		159 99
Michael McLaughlin, lot of land on southerly side of Swiss street.....		460 00
Sarah A. McCann, lot of land on corner of Cypress and Knowles streets.....		664 00
Edward Murphy, lot of land on east side of Knowles street....		742 00
John McCarron, lot of land on east side of Ridge street.....		816 03
Thomas Mulcahey, lot of land on southerly side of Cypress street.....		900 60
Thomas Mulcahey, lot of land on southerly side of Cypress street.....		950 79
David Crankshaw, lot of land on easterly side of Ridge etreet.		1,047 54
Benjamin F. Harrington, lot and buildings corner of Elmwood and Potter avenues.....		5,525 00
A. C. J. Learned, two lots of land on westerly side of Charles street.....		5,887 00
		$22,830 53
Balance to the credit of the Committee, September 30, 1896....		1,153 23
		$24,013 76
Paid City Treasurer to be applied toward the payment of city note No. 1,977.....		758 97
Balance, September 30, 1897, to the credit of the Committee on City Debt, to be applied towards the payment of the city debt.....		$23,254 79

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All bills, accounts, or just claims for purchases made for or on account of the city, or for services rendered or labor performed which were presented to the Auditor on or before the tenth day of October last were duly audited and charged into the accounts of the preceding fiscal year.

LIMITATION OF THE CITY DEBT.

EXTRACT FROM CHAPTER 34 OF THE REVISED STATUTES OF THE STATE.

SECTION 16. "The outstanding notes, bonds and contracts of towns shall be paid and be fulfilled according to the tenor thereof, and all public works now authorized to be prosecuted shall be prosecuted, and all indebtedness now authorized to be incurred on account thereof, may be incurred according to the tenor of the authority therefor.

SEC. 17. No town shall incur any debt in excess of three per centum of the taxable property of such town, including the indebtedness of such town on the tenth day of April, one thousand eight hundred seventy-eight, but the giving of a new note or bond, for a pre-existing debt, or for money borrowed and applied to the payment of such pre-existing debt, is excepted from the provisions of this section, and the amount of any sinking fund shall be deducted in computing such indebtedness."

No debt has been incurred during the fiscal year on the part of the city in contravention of this act.

The city has hired, from time to time during the fiscal year, the sum of $1,238,032.95, exclusive of renewals, for such purposes as has heretofore been authorized by the General Assembly.

In June, 1897, the City Council ordered the assessment of the tax for 1897, fixing the rate at $1.65 on each $100.00.

The Assessors' valuation of the ratable property of the city as assessed July 1, 1897, was as follows:

Personal estate	$38,237,020 00
Real estate	135,822,460 00
Total	$174,059,480 00

Upon this sum the annual tax was based as follows:

For ordinary expenses	87-100
For the sinking funds, notes and interest	60-100
For the city's proportion of the State tax	18-100

Being a net tax of 1 65-100 per centum of the valuation thereof.

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The State valuation of the city, as fixed by Chapter 29 of the General Laws, amounted to $168,547,726.00, upon which a yearly tax of $303,385.91 is assessed, payable one-half in June, and the balance in December.

In accordance with Chapter XIV, Section 43, of the ordinance in relation to finances, the City Auditor has examined the statement of the City Treasurer for the financial year ending September 30, 1897, and found the same to be correct, showing a balance of $227,556.86, which amount was on deposit as per certificates, copies of which are herewith submitted:

INDUSTRIAL TRUST COMPANY,
PROVIDENCE, R. I., Oct. 20th, 1897.

HON. D. L. D. GRANGER, CITY TREASURER, PROVIDENCE, R. I.:

DEAR SIR: It appears by the books of the Industrial Trust Co. that the balance to the credit of the City of Providence, on general account, at the close of business this day is $45,522.05.

Very truly yours,

CYRUS P. BROWN,
Treasurer.

PROV., R. I., Oct. 21st, 1897.

This is to certify that at the close of business October 20, 1897, our books showed a balance of $182,034.81 due the City of Providence *Gen'l Acc't.*

PROVIDENCE NAT'L BANK,
By A. R. MATTESON,
Cashier.

In response to a request made to Mr. Robert E. Smith, Commissioner of Public Works, to appoint some person in the engineer's department to examine the records in the assessors' office and assist the Auditor in revising the schedule of city property, Mr. William G. Brennan was detailed and rendered valuable assistance.

The statement in detail of the receipts and expenditures of the city and other accounts required of this department, will be found under their appropriate heads.

Respectfully submitted,

PHILIP S. CHASE,
City Auditor.

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ESTIMATED RECEIPTS.

Statement of the estimated receipts for the fiscal year ending September 30, 1897, submitted to the City Council in March, 1896, and also the actual receipts for the same period:

Titles of Accounts.	Estimated.	Actual.	Increase.	Decrease.
City Licenses	$10,000 00	$15,051 25	$5,051 25	.....
Fire Department	200 00	189 45	.....	10 55
Interest	42,000 00	49,754 47	7,754 47	.....
Liquor Licenses	138,000 00	140,687 50	2,687 50	.....
Miscellaneous	75,000 00	82,401 53	7,401 53	.....
Police Department	12,000 00	17,219 77	5,219 77	.....
Public Bridges	100 00	2,543 65	2,443 65	.....
Public Buildings	25 00	298 98	273 98	.....
Public Lights	200 00	77 60	.....	122 40
Public Schools	50,000 00	46,893 98	.....	3,106 02
Rents	8,000 00	7,580 03	.....	419 97
Streets and Sewers	1,000 00	2,510 96	1,510 96	.....
Water Rents	422,800 00	*408,603 43	.....	14,196 57
Water Works Maintenance	17,200 00	25,080 53	7,880 53	.....
Increase	22,368 13	.....	.....	22,368 13
	$798,893 13	$798,893 13	$40,223 64	$40,223 64

* In addition to this amount $87,074.95 was received for Water Rents and transferred to the Sinking Fund for the redemption of Water Loan due in 1900.

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EXPENDITURES.

A statement of the expenditures for the fiscal year 1896–1897, showing the increase or decrease from the amount appropriated by the ordinance as approved September 22, 1896:

TITLES OF ACCOUNTS.	Appropriations.	Expended.	Increase.	Decrease.
Asylum Walls and Buildings	$2,000 00	$1,988 07	.....	$11 93
Auditing Department	7,500 00	7,198 91	.....	301 09
City Clerk's Department	9,000 00	8,183 47	.....	816 53
City Council	22,000 00	22,393 45	$393 45	.....
City Hall	25,000 00	25,000 00	.....	.....
Clerk of Common Council and Clerk of Committees	3,200 00	3,197 23	.....	2 77
Contingencies	75,000 00	125,852 34	50,852 34	.....
Elections	18,000 00	17,999 92	.....	08
Executive Department	8,000 00	7,833 99	.....	166 01
Fire Department	340,000 00	337,986 76	.....	2,013 24
Harbor	10,939 12	10,606 56	.....	332 56
Health	44,000 00	45,856 46	1,856 46	.....
Inspector of Buildings	4,300 00	4,124 78	.....	175 22
Inspector of Milk	5,000 00	5,197 28	197 28	.....
Inspector of Plumbing	5,400 00	5,573 69	173 69	.....
Interest	115,000 00	106,297 13	.....	8,702 87
Interest on Loans	629,585 00	629,585 00	.....	.....
Law Department	13,000 00	13,249 45	249 45	.....
License Commissioners	3,300 00	3,414 95	114 95	.....
Municipal Court	6,200 00	6,296 46	96 46	.....
Police Department	335,000 00	334,999 92	.....	08
Printing	8,000 00	5,654 17	.....	2,345 83
Providence Public Library	10,000 00	10,000 00	.....	.....
Public Buildings	65,000 00	113,593 88	48,593 88	.....
Public Lights	280,000 00	283,500 00	3,500 00	.....
Public Parks—General Acc't	10,692 01	8,236 21	.....	2,455 80
Public Parks—Roger Williams Park	27,243 74	32,110 58	4,866 84	.....
Public Schools	475,000 00	561,893 98	46,893 98	.....
*Public School Janitors	40,000 00	.....	.....	.....
Public Works—Bridges	28,660 24	28,585 07	.....	75 17
Public Works—City Engineer's Department	50,000 00	47,999 49	.....	2,000 51
Public Works—Highways	175,383 64	244,041 58	68,657 94	.....
Public Works—Office	23,000 00	20,050 45	.....	2,949 55
Public Works—Sewer Maintenance	40,000 00	36,154 91	.....	3,845 09
Public Works—Sidewalks and Curbing	27,682 43	26,898 49	.....	783 94
Public Works—Water Works Maintenance	86,000 00	88,557 99	2,557 99	.....
Record Commissioners	3,000 00	2,200 00	.....	800 00
Recorder of Deeds	6,000 00	5,799 04	.....	200 96
Relief Fund for Firemen	1,500 00	260 00	.....	1,240 00
Relief Fund for Policemen	1,499 29	260 70	.....	1,238 59
Rhode Island Hospital	8,000 00	8,000 00	.....	.....
School Houses and Lots	140 94	140 94	.....	.....
Sinking Funds	163,350 00	163,350 00	.....	.....
Special Highway Loans	40,000 00	40,000 00	.....	.....
State Tax	303,385 91	303,385 91	.....	.....
Street Signs and Numbers	1,500 00	1,949 73	449 73	.....
Support of the Poor	16,000 00	23,768 00	7,768 00	.....
Tax Department	19,000 00	16,897 59	.....	2,102 41
Treasury Department	25,206 41	25,415 50	209 09	.....
Increase	204,871 30	.....	.....	204,871 30
	$3,821,540 03	$3,821,540 03	$237,431 53	$237,431 53

* Transferred to Public Schools, Chapter 764 of the city ordinances, approved December 18, 1896.

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TRANSFERS.

The following is a statement of the special transfers and appropriations made by order of the City Council from one department to another, from sewer assessments, etc.:

Auditing Department	$300 00	
City Clerk's Department	800 00	
Executive Department	100 00	
Harbor	332 56	
Inspector of Buildings	175 00	
Interest	8,702 87	
Printing	2,275 00	
Public Works—Office	2,900 00	
Public Works—City Engineer	2,000 00	
Public Works—Sewer Maintenance	5,000 00	
Record Commissioners	800 00	
Recorder of Deeds	200 00	
Sewer Assessments	120,490 97	
Tax Department	2,000 00	
Public Buildings	1,500 00	
To Contingencies		$147,576 40
Clark Dalrymple Memorial Fund	4 06	
To Dalrymple Memorial Boat House		4 06
Contingencies	80,050 00	
To City Council		400 00
Inspector of Milk		200 00
Inspector of Plumbing		175 00
Law Department		250 00
License Commissioners		125 00
Municipal Court		100 00
Public Lights		3,500 00
Public Works—Water Maintenance		3,000 00
Treasury Department		250 00
Public Buildings		35,000 00
Public Works—Highways		35,000 00
Street Signs and Numbers		450 00
Support of the Poor		1,600 00
Fire Department	2,000 00	
To Health Department		2,000 00
Public School Janitors	40,000 00	
To Public Schools		40,000 00
Public Works—Sidewalks and Curbing	25,000 00	
To Public Works—Highways		25,000 00
R. W. Park (Receipt Account)	125 27	
To Casino, R. W. Park		125 27
Sewer Construction Cr	827 61	
To Sewer Construction		827 61
Water Works Construction Cr	3,050 82	
To Water Works Construction		3,050 82
	$298,634 16	$298,634 16

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BALANCE SHEET, SEPTEMBER 30, 1897.

Titles of Accounts.	Dr.	Cr.
Blackstone Park Improvement Loan Account		$48,000 23
Blackstone Park Land Account		16,611 38
Central Office Fire Alarm, etc		24,246 64
City Hall and Sewer Loan due June 1, 1899		600,000 00
City of Providence	$18,729,767 29	
City Treasurer	227,556 86	
Casino, Roger Williams Park		1,936 26
City Tax of 1893	20,308 95	
" " " 1894	22,122 34	
" " " 1895	36,587 07	
" " " 1896	33,250 60	
Committee on City Debt		23,254 79
Contingencies		16,674 06
Dog Licenses		1,408 00
Davis Park Improvement Loan Account		2,291 30
Davis Estate Loan due July 1, 1909		75,600 00
Dan'l Wanton Lyman Bequest for Elisha Dyer Monument		140 00
Estate of Lillian A Taylor		12 89
Estate of Janett W. Pitt		1,121 23
Estate of H. Howard		23 64
Estate of F. Nitch		261 40
Estate of William Simms		210 69
Highways, Special Account		53,567 73
Highways, Special Account Cr		6,673 64
Highway Loan due May 1 1924		1,200,000 00
Highway Loan due April 1, 1927		500,000 00
Loan Account		555,692 95
North Burial Ground		3,220 86
North Burial Ground, Land Account	42,847 93	
North Burial Ground, Sinking Fund		2,585 74
Park Loan due March 1 1923		500,000 00
Park Loan due May 1, 1947		674,000 90
Public Improvement Loans due 1899-1900		596,000 00
Public Parks		2,568 30
Public Parks—Roger Williams Park		102 47
Public Works—Sidewalks and Curbing		11,515 55
Public Improvement Loan due May 1, 1937		640,000 00
Amounts carried forward	$19,112,441 13	$5,557,139 74

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BALANCE SHEET, SEPTEMBER 30, 1897.

Titles of Accounts.	Dr.	Cr.
Amounts brought forward	$19,112,441 13	$5,557,139 74
Relief Fund for Firemen		1,240 00
Relief Fund for Policemen		1.238 59
Reservation Fund		6,329 00
Reserved Fund		6,187 76
Rone Estate		16,148 44
Roger Williams Park (Receipt Account)		1,136 01
Roger Williams Park Improvement Loan Account		3,740 19
Roger Williams Park Land Account		6,214 10
School Houses and Lots Loan Account		356,240 82
Senator Anthony Prize Fund (Income)		142 95
Sewer Construction		551,261 68
School Loan due July 1, 1911		300,000 00
School Loan due May 1, 1925		300,000 00
School Loan due April 1, 1927		500,000 00
Sewer Loan due July 1, 1921		1,125,000 00
Sewer Loan due March 1, 1922		500,000 00
Sewer Loan due April 1, 1923		500,000 00
Sewer Loan due May 1, 1925		800,000 00
Sewer Loan due June 1, 1926		500,000 00
Sewer Loan due April 1, 1927		300,000 00
Special Highway Loan (Chapter 243)		160,000 00
State of Rhode Island		1,568 00
State House Site		10,000 00
Tillinghast Donation		177 00
Water Works Construction		69,568 73
Weybosset Bridge and River Walls		289,108 12
Water Works Loan due in 1900		4,000,000 00
Water Works Loan due in 1906		1,500,000 00
Water Works Loan due in 1916		483,000 00
Water Works Loan due in 1923		817,000 00
Water Works Loan due in 1926		200,000 00
Water Works Loan due in 1927		250,000 00
	$19,112,441 13	$19,112,441 13

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STATEMENT.

Table I. Showing receipts and expenditures for the years ending September 30, 1885, 1890, and each year since.

Year.	Receipts.						
	Ordinary.			Extraordinary.			Aggregate.
	From Taxes.	From Other Sources.	Total.	From Loans.	From Other Sources.	Total.	
1885	$1,782,421 37	$559,272 51	$2,341,693 88	$1,790,594 59	a$715,417 07	$2,506,011 66	$4,847,705 54
1890	2,103,332 52	761,958 71	2,865,291 23	1,841,692 95	160,436 81	2,002,129 76	4,867,420 99
1891	2,108,848 65	759,697 66	2,868,546 31	4,371,742 95	233,598 96	4,605,341 91	7,473,888 22
1892	2,250,365 27	755,729 98	3,006,095 25	2,823,082 95	296,314 42	3,119,397 37	6,125,492 62
1893	2,360,405 01	807,925 88	3,168,330 89	4,606,507 40	b705,754 98	5,312,262 38	8,480,593 27
1894	2,537,401 60	806,801 08	3,344,202 68	2,696,120 95	915,885 37	3,612,006 32	6,956,209 00
1895	2,636,463 60	d910,815 11	3,547,278 71	3,952,356 27	c1,654,001 68	5,606,357 95	9,153,636 66
1896	2,754,854 89	e838,160 02	3,593,014 91	2,492,851 10	873 141 31	3,365,992 41	6,959,007 32
1897	2,846,455 92	820,402 79	3,666,858 71	4,834,365 90	345,027 79	5,179,393 69	8,846,252 40

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STATEMENT. TABLE I — CONTINUED.

Year.	Expenditures.						
	Ordinary.			Extraordinary.			Aggregate.
	Interest and Sinking Funds.	Other Purposes.	Total.	Loans.	Other Purposes.	Total.	
1885	f $633,265 97	$1,620,596 21	$2,253,862 18	$1,355,594 59	$1,225,950 86	$2,581,545 45	$4,835,407 63
1890	g 629,088 93	2,073,798 36	2,702,887 29	1,363,692 95	656,384 83	2,020,077 78	4,722,965 07
1891	h 667,325 28	2,330,387 08	2,997,712 36	2,551,692 95	1,473,437 18	4,025,130 13	7,022,842 49
1892	h 787,123 74	2,328,685 39	3,115,809 13	1,022,692 95	2,347,174 56	3,369,867 51	6,485,676 64
1893	h 851,505 24	2,466,289 66	3,317,794 90	3,530,692 95	1,939,124 51	5,469,817 46	8,787,612 36
1894	h 870,794 31	2,606,623 12	3,477,417 43	1,390,692 95	1,927,345 21	3,318,038 16	6,795,455 59
1895	h 942,276 82	2,799,628 39	3,742,905 21	4,014,360 07	1,667,505 45	5,681,865 52	9,424,770 73
1896	h 917,220 81	2,857,681 73	3,774,902 54	1,620,384 27	1,615,901 16	3,236,285 43	7,011,187 97
1897	h 1,026,307 08	2,817,451 93	3,843,759 01	3,562,214 05	1,455,024 29	5,017,238 34	8,860,997 35

a. Includes $600,000.00 from sinking funds to pay bonds due in 1885.
b. Includes $300,000.00 from sinking funds to pay bonds due in 1893.
c. Includes $1,247,194.12 from sinking funds to pay bonds due in 1895.
d. Includes $77,006.13 transferred from receipts for sewer assessments and sidewalks and curbing.
e. Includes $16,258.97 transferred from Committee on City Debt.
f. Includes $28,500.00 on notes account of High School Building and Harbor improvements (annual appropriation).
g. Includes $20,000.00 notes on Highway Special account (annual appropriation).
h. Includes $40,000.00 notes on Highway Special amount (annual appropriation).

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STATEMENT.

Table II. Showing the debt, sinking funds, population, valuation and assets on the 30th day of September, 1885, 1890, and each year since.

Year.	Debt.			Sinking Funds.	Net Debt.	Population.	Net Debt Per Capita.	Assessors' Valuation.	Valuation Per Capita.
	Funded.	Floating.	Total.						
1885	$8,622,188 22	$1,047,128 63	$9,669,316 85	$1,474,314 74	$8,195 002 11	118,070	$69 41	$124,202,000 00	$1,051 93
1890	9,091,250 00	1,528,692 95	10,619,942 95	2,402,964 19	8,216.978 76	132,146	62 18	140,617,060 00	1,064 10
1891	10,776,250 00	1,598,692 95	12,374,942 95	2,669,301 77	9,705,641 18	.....	.....	146,901,840 00	.....
1892	11,736,250 00	2,136,192 95	13,872,442 95	2,993,469 17	10,878,973 78	.....	.....	155,542,520 00	.....
1893	12,713,250 00	2,117,884 27	14,831,134 27	3,097,455 00	11,733,679 27	.....	.....	159,812,560 00	.....
1894	13,873,250 00	2,089,884 27	15,963,134 27	3,562,703 92	12,400,430 35	.....	.....	167,264,200 00	.....
1895	13,536,000 00	2,221,384 27	15,757,384 27	2,832,881 04	12,924,503 23	145,472	88 84	169,789,060 00	1,167 16
1896	14,196,000 00	2,336,181 10	16,532,181 10	3,298,492 59	13,233,688 51	*151,000	87 64	174,232,500 00	1,153 86
1897	17,020,000 00	555,692 95	17,575,692 95	3,822,129 55	13,753,563 40	*155,000	88 73	174,042,480 00	1,122 85

* Estimated by City Registrar.

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STATEMENT. TABLE II — CONTINUED.

Year.	Assets other than Sinking Funds.				
	Anthony Prize Fund.	Trust Funds.	Personal Property.	Real Estate and Improvements.	Total.
1888	.....	.....	.....	.....	.....
1890	.....	.....	.....	.....	.....
1891	$3,000 00	$136,160 54	$415,207 13	$6,350 806 00	$6,905,173 67
1892	3,000 00	142,361 54	475,240 49	6,854,028 00	7,474,630 03
1893	3,000 00	153,362 20	488,573 70	7,271,835 00	7,916,770 90
1894	3,000 00	160,431 11	558,733 80	8,546,260 00	9,268,424 91
1895	3,000 00	178,275 43	508,015 77	8,691,617 00	9,380,908 20
1896	3,000 00	187,536 50	546,131 91	8,582,620 00	9,319,288 41
1897	3,000 00	197,585 95	490,019 53	11,167,629 00	11,858,326 48

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ABSTRACT OF RECEIPTS.

City Engineer's Department	$35 27
City Licenses	19,281 00
City Tax, 1896	2,846,455 92
Committee on the City Debt	21,662 10
Dog Licenses	9,938 00
Estate of William Simms	210 69
Fire Department	189 45
Highway Loan due April 1, 1927	577,500 00
Highways, Special Account	18,042 13
Interest	49,754 47
Liquor Licenses	188,365 00
Loan Account	1,401,725 90
Miscellaneous	82,401 53
North Burial Ground	18,518 43
North Burial Ground Sinking Fund	343 20
Park Loan due May 1, 1947	674,000 00
Police Department	17,219 77
Public Buildings	103 95
Public Buildings, Credit	195 03
Public Improvement Loan due May 1, 1937	640,000 00
Public Lights	77 60
Public Parks, General Account	132 50
Public Parks, Roger Williams Park	4,969 31
Public Schools	37,222 18
Amount carried forward	$6,608,343 43

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Amount brought forward		$6,608,343 43
Public Works, Bridges		2,543 65
Public Works, Highways		8,761 00
Public Works, Sewer Maintenance		1,175 86
Public Works, Sidewalks and Curbing		35,731 61
Public Works, Water Works Maintenance		25,080 53
Rents		7,580 03
Reservation Fund		1,599 00
Roger Williams Park, Revenue		1,261 28
School Houses and Lots, Loan Account		15 00
School Loan due April 1, 1927		569,650 00
Senator Anthony Prize Fund, Income		144 79
Sewer Assessments		95,702 91
Sewer Constuction		1,503 03
Sewer Loan due April 1, 1927		345,715 00
Sinking Fund Water Loan due July 1, 1900		87,074 95
Special Highway Loan		340,000 00
Streets and Sewers		2,510 96
Support of the Poor		6,169 52
Water Loan due April 1, 1927		285,775 00
Water Rents	$495,678 38	
Less carried to Sinking Funds	87,074 95	408,603 43
Water Works, Construction		11,311 42
		$8,846,252 40
Balance in the City Treasury, September 30, 1896		242,301 81
		$9,088,554 21

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ABSTRACT OF EXPENDITURES.

Asylum Walls and Buildings	$1,988 07
Auditing Department	7,198 91
Blackstone Park, Improvement Loan Account.	3,736 28
Casino, Roger Williams Park	29,054 97
Central Office Fire Alarm, etc.	753 36
City Clerk's Department	8,183 47
City Council	22,398 45
City Hall	25,000 00
Clerk of Common Council and Clerk of Committees	3,197 23
Contingencies	125,852 34
Dalrymple Memorial Boat House	2,928 81
Davis Park, Improvement Loan Account	34,243 06
Dog Licenses	394 40
Eddy Street Estate Adjoining City Yard	69,340 00
Elections	17,999 92
Executive Department	7,833 99
Fire Department	337,986 76
Harbor	10,606 56
Health Department	45,856 46
Highway Loan Due April 1, 1927	77,500 00
Highways, Special Account	115,943 40
Highways, Special Account (Receipt Account)	17,793 74
Inspector of Buildings	4,124 78
Inspector of Milk	5,197 28
Inspector of Plumbing	5,573 69
Amount carried forward	$980,680 93

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Amount brought forward	$980,680 93
Interest	106,297 13
Interest on Loans	288,800 00
Interest on Water Loans	340,785 00
Law Department	13,249 45
License Commissioners	3,414 95
Loan Account	3,182,214 05
Municipal Court	6,296 46
North Burial Ground	20,559 87
Police Department	334,999 92
Printing	5,654 17
Providence Public Library	10,000 00
Public Buildings	113,593 88
Public Lights	283,500 00
Public Parks, General Account	8,236 21
Public Parks, Roger Williams Park	32,110 58
Public Schools	561,893 98
Public Works, Bridges	28,585 07
Public Works, City Engineer's Department	47,999 49
Public Works, Highways	244,041 58
Public Works, Office	20,050 45
Public Works, Sewer Maintenance	36,154 91
Public Works, Sidewalks and Curbing	26,898 49
Public Works, Water Works Maintenance	88,557 99
Record Commissioners	2,200 00
Recorder of Deeds	5,799 04
Red Bridge (New)	402 55
Relief Fund for Firemen	260 00
Amount carried forward	$6,793,236 15

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Amount brought forward	$6,793,236 15
Relief Fund for Policemen	260 70
Rhode Island Hospital	8,000 00
Roger Williams Park, Improvement Loan Account	148,149 45
Roger Williams Park, Land Account	6,815 40
School Houses and Lots	140 94
School Houses and Lots, Loan Account	294,533 41
School Loan Due April 1, 1927	69,650 00
Senator Anthony Prize Fund, Income	48 00
Sewer Assessments	62 58
Sewer Construction	233,949 78
Sewer Loan Due April 1, 1927	45,715 00
Sinking Funds	163,350 00
Sinking Fund, Water Loan Due July 1, 1900	87,074 95
Special Higway Loans	380,000 00
State of Rhode Island	51,145 75
State Tax	303,385 91
Street Signs and Numbers	1,949 73
Support of the Poor	23,768 00
Tax Department	16,897 59
Treasury Department	25,415 50
Water Loan Due April 1, 1927	35,775 00
Water Works, Construction	140,781 63
Weybosset Bridge and River Walls	30,891 88
	$8,860,997 35
Balance in the City Treasury, September 30, 1897	227,556 86
	$9,088,554 21

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RECEIPTS.

CITY ENGINEER'S DEPARTMENT.

Sale of material, etc	$35 27

CITY LICENSES.

Licenses to keep swine	$10 00
Private detective license	10 00
Night soil licenses	25 00
Bowling alley licenses	40 00
Intelligence office licenses	226 00
Junk licenses	249 00
Gunpowder and fireworks licenses	303 00
Pawnbrokers' licenses	500 00
Licenses for bagatelle, billiard, pool and scippio tables	3,195 00
Licenses to hold exhibitions, etc	3,261 00
Licenses for hacks, lunch wagons, trucks, etc	3,274 00
Tavern and victualling licenses	8,188 00
Total	$19,281 00

CITY TAX OF 1896.

Assessment for building in violation of law	$50 00
Street assessments	7,759 00
Part of city tax of 1896	2,838,646 92
Total	$2,846,455 92

COMMITTEE ON THE CITY DEBT.

Land and buildings sold as follows:

Michael McLaughlin, lot of land on the southerly side of Swiss street	$460 00
Sarah A. McCann, lot of land on the southeast corner of Cypress and Knowles streets	664 00

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Edward Murphy, lot of land on the east side of Knowles street	$742 00
John McCarron, lot of land on the easterly side of Ridge street	816 03
David Crankshaw, lot of land on the easterly side of Ridge street	1,047 54
Thomas Mulcahey, two lots of land on the southerly side of Cypress street	1,851 39
Benjamin F. Harrington, lot of land and buildings at the northwesterly corner of Elmwood and Potter avenues	5,525 00
A. C. J. Learned, two lots of land on the westerly side of Charles street	5,887 00
City Tax of 1891 with interest	4 38
City Tax of 1892 with interest	4 13
City Tax of 1893 with interest	24 85
City Tax of 1894 with interest	903 08
City Tax of 1895 with interest	3,572 71
Interest on balances	159 99
Total	$21,662 10

DOG LICENSES.

Amount received for licenses	$9,938 00

ESTATE OF WILLIAM SIMMS.

J. G. Parkhurst, Public Administrator, amount in his hands belonging to the estate of William Simms, deceased, without known heirs	$210 69

FIRE DEPARTMENT.

Sale of old hose	$2 70
Labor on fire alarm wires	9 75
Sale of manure	177 00
Total	$189 45

HIGHWAY LOAN, DUE APRIL 1, 1927.

Premium of $15.50 on each $100.00 of $500,000.00	$77,500 00
Sale of twenty-five registered bonds	500,000 00
Total	$577,500 00

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HIGHWAYS, SPECIAL ACCOUNT.

New York, New Haven and Hartford Railroad Co.	$13 98
New England Railroad Co.	171 72
Providence Building Co.	547 45
Union Railroad Co.	17,308 98
Total	$18,042 13

INTEREST.

Interest on assessment for the layout and widening of Washington street	$17 81
Interest on sewer assessments	3,492 51
Interest on daily balances from the following banks:	
Rhode Island Hospital Trust Co.	3,387 20
Merchants National Bank	5,198 45
Industrial Trust Co.	5,970 43
Manufacturers National Bank	9,695 60
Providence National Bank	9,826 27
Interest on city tax of 1896	12,166 20
Total	$49,754 47

LIQUOR LICENSES.

Amount received for licenses	$188,365 00

LOAN ACCOUNT.

City notes (see schedule)	$1,401,725 90

MISCELLANEOUS.

Error in entering returns of Superintendent of Parks	$ 20
Expenses collected on poll tax of 1895	75
Alice S. Bridgham, wife of John O., for expense of advertising in the Providence Journal, June 7, 1897	3 50
Expenses collected on city tax of 1893	3 60
C. P. Brennan, amount of bill allowed by error in Health Department	4 03
Heffernan, Rogers & Kempton, amount of bill allowed by error in Roger Williams Park Improvement Loan Account	5 75

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Sale of city ordinances	$8 00
Pound keeper's fees	19 50
Expenses collected on city tax of 1894	23 55
James P. McElroy, amount of bill for collecting poll taxes allowed by error in Treasury Department	24 00
Allowances to sundry persons on R. W. Park Improvement Loan account pay-roll of June 19, 1897, by error of Park department	30 00
Penalties for violation of laws relating to the connection of premises with sewers	35 00
City Clerk:	
Recording physicians' certificates	16 00
Filing partnership returns	40 00
Assessment on the layout and widening of Washington street	134 00
Auctioneers' returns	155 60
Board of Canvassers and Registration, for certified copies of voting lists, etc	244 62
Expenses collected on city tax of 1895	246 60
City Treasurer, garnishee fees	261 15
Expenses collected on sewer assessments	294 35
Assessment for layout and extension of Huntington avenue	398 00
Expenses collected on poll tax of 1896	417 25
Providence Cable Tramway Co., 3 per cent. of gross earnings for the year ending June 30, 1897	1,671 67
City Sealer, fees	1,925 71
Providence Telephone Co., 1½ per cent. of gross receipts from rental of telephones in the city of Providence for the year ending September 30, 1896	2,821 60
Clerk of Municipal Court, fees	3,320 48
Expenses collected on city tax of 1896	3,361 25
Municipal Court, fees	4,709 27
Recorder of Deeds, fees	6,945 00
Narragansett Electric Lighting Co., 3 per cent. of gross earnings for the year ending June 30, 1897	13,705 48

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Providence Gas Co., 3 per cent. of gross earnings for the year ending June 30, 1897	$16,500 99
Union Railroad Co., 3 per cent. of gross earnings for the year ending June 30, 1897	25,074 63
Total	$82,401 53

NORTH BURIAL GROUND.

Certificates	29 00
Sundry items	199 77
Tomb rent	353 80
Rent of buildings	712 00
Brick graves	1,624 90
Interments	2,673 45
Sale of lots	3,910 77
Improvement of lots	9,014 74
Total	$18,518 43

NORTH BURIAL GROUND, SINKING FUND.

Five cents per foot on 6,864 square feet of land sold during the year	343 20

PARK LOAN, DUE MAY 1, 1947.

Sale of thirty-eight registered bonds	674,000 00

POLICE DEPARTMENT.

City of Springfield, for services	7 72
Sale of old metal, wire, etc	116 60
Services of police at exhibitions	150 00
Fines and costs received at Providence County Jail	754 50
Fees for registering dogs	967 65
Officers' fees in Sixth District Court	7,005 05
Fines, costs and fees received at Police Court	8,218 25
Total	$17,219 77

PUBLIC BUILDINGS.

J. A. Ripley, amount of error in bill paid November 10, 1896	103 95

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PUBLIC BUILDINGS, RECEIPT ACCOUNT.

Labor, material, etc	$40 38
Sale of old furniture, etc	154 65
Total	$195 03

PUBLIC IMPROVEMENT LOAN, DUE MAY 1, 1937.

Sale of thirty-two registered bonds	640,000 00

PUBLIC LIGHTS.

Labor, material, etc	37 60
Sale of horse	40 00
Total	$77 60

PUBLIC PARKS, GENERAL ACCOUNT.

Sale of grass, Davis Park	10 00
Rent of house, Davis Park	10 00
Rent of bicycle building at Blackstone Park	112 50
Total	$132 50

PUBLIC PARKS, ROGER WILLIAMS PARK.

Use of pails	70
Setting tree	2 00
Percentage of receipts from music boxes	3 62
Percentage of receipts from weighing machines	7 80
Percentage of receipts from ice water fountains	10 23
Sale of buildings	32 50
Sale of muck	61 10
Use of pony teams	544 10
Commission on carousal	700 10
Use of steam launches	778 90
Sale of wood, old lumber, etc	926 23
Use of boats	1,902 03
Total	$4,969 31

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PUBLIC SCHOOLS.

Beacon Hill Improvement Association, for removing trees	$1 00
Poll tax of 1895	3 00
Sale of old furniture	7 00
Fines for damage to school property	29 54
One-half fines in dog license cases	130 00
Tuition of non-resident pupils	3,650 00
Poll tax of 1896	7,941 01
State of Rhode Island	25,460 63
*Total	$37,222 18

PUBLIC WORKS, BRIDGES.

Sale of old lumber, etc	$52 10
Town of Johnston, for labor, etc	59 25
Union Railroad Co., for labor, etc	2,432 30
Total	$2,543 65

PUBLIC WORKS, HIGHWAYS.

Sale of manure and sweepings	$750 77
Labor, material, etc	8,010 23
Total	$8,761 00

PUBLIC WORKS, SEWER MAINTENANCE.

Labor, material, etc	$1,175 86

PUBLIC WORKS, SIDEWALKS AND CURBING.

Sale of curbstone, etc	$13,302 66
Assessments in city tax of 1896	22,428 95
Total	$35,731 61

PUBLIC WORKS, WATER WORKS MAINTENANCE.

Penalties	$326 00
Rent of land and buildings	586 31
Labor, material, etc	7,133 97
Sale of water meters	17,034 25
Total	$25,080 53

* In addition to this amount $9,671.80 was transferred from Dog Licenses.

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RENTS.

James street ferry	$9 00
Tenement at No. 112 Courtland street	12 00
Land on Pallas street	18 00
Two rooms in old Beacon avenue school house	18 75
Land between Wickenden and Tockwotton streets	24 00
Site for bill board on land at the north side of approach to Washington bridge	25 00
Land on Gano street near Tockwotton street	40 00
Land at the junction of Mill street and the Blackstone canal	40 00
Hall in the old fire station, Mill street	56 00
Land at the corner of Charles and Stevens streets	75 00
Wharf on South Water street	80 86
Land on Pond street	100 00
Land on Charles street	186 76
Land and building corner of Elmwood and Potter avenues	219 66
Land on Burgess street	275 00
Part of Field's Point farm	375 00
Use of streets	525 00
Site of passenger depot, Union Railroad Co	1,500 00
City building Market square	4,000 00
Total	$7,580 03

RESERVATION FUND.

Reservations held under contracts with the Narragansett Improvement Co., viz:—	
Highways Special Account:	
Post Office court	$33 00
Union street	62 00
Dunwells gangway	85 00
Snow street	98 00
Fulton street	109 00
Washington street	981 00
Public Works, Bridges:	
Exchange and Promenade street bridges	231 00
Total	$1,599 00

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ROGER WILLIAMS PARK, REVENUE.

Percentage of music box receipts	$1 18
Sale of views of park	1 90
Rent of land	2 00
Use of pony teams	2 60
Percentage of receipts from weighing machines	2 72
Use of steam launches	3 10
Use of baby carriages	4 90
Percentage of receipts from ice water fountains	5 00
Percentage of receipts from bicycle locks	6 42
Use of boats	8 45
Use of casino	15 00
Sale of fowl, material, etc	70 73
Use of ice chairs	76 70
Sale of ponies, saddles, etc	102 00
Sale of skate straps	102 30
Use of swings	119 20
Sharpening and repairing skates	206 35
Use of skates	253 40
Articles checked	277 33
Total	$1,261 28

SCHOOL HOUSES AND LOTS, LOAN ACCOUNT.

Amount allowed by error of Public Building department to Charles L. Richards on pay roll of August 8, 1896	$15 00

SCHOOL LOAN DUE APRIL 1, 1927.

Premium of $13.93 on each $100.00 of $500,000.00	$69,650 00
Sale of three registered bonds	21,000 00
Sale of four hundred and seventy-nine coupon bonds	479,000 00
Total	$569,650 00

SENATOR ANTHONY PRIZE FUND, INCOME.

Commissioners of Sinking Funds, income from Senator Anthony Prize Fund to July 1, 1897	144 79

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SEWER ASSESSMENTS.

Amount received	$95,702 91

SEWER CONSTRUCTION.

Labor, material, etc	$1,503 03

SEWER LOAN DUE APRIL 1, 1927.

Premium of $13.93 on each $100.00 of $50,000.00	$6,965 00
Sale of fifty coupon bonds	50,000 00
Premium of $15.50 on each $100.00 of $250,000.00	38,750 00
Sale of thirteen registered bonds	250,000 00
Total	$345,715 00

SINKING FUND, WATER LOAN DUE JULY 1, 1900.

Excess of receipts from water rents, etc., over and above the expenses of managing the water works for the financial year ending September 30, 1897, including interest on bonds and loans issued on account of Water works construction	$87,074 95

SPECIAL HIGHWAY LOANS.

City notes Nos. 79 "E" to 95 "E" inclusive issued for highway purposes	340,000 00

STREETS AND SEWERS.

Opening streets	$1,042 00
Entering sewers	1,468 96
Total	$2,510 96

SUPPORT OF THE POOR.

Providence Society for Organizing Charities	7 25
In part payment for transportation	8 83
Interest on deposits	10 14
Town of Lincoln	16 20
Sale of manure	18 00
Use of shed, etc. for posting bills	30 00
City of Woonsocket	38 00

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Sale of horse	$40 00
In part payment of burials	43 00
Sale of wood	5,958 10
Total	$6,169 52

WATER LOAN DUE APRIL 1, 1927.

Premium of $14.31 on each $100.00 of $250,000.00	$35,775 00
Sale of two hundred and fifty coupon bonds	250,000 00
Total	$285,775 00

WATER RENTS.

*Receipts for water	$408,603 43

WATER WORKS CONSTRUCTION.

Labor, material, etc.	$4,311 42
Narragansett Real Estate Co.	7,000 00
Total	$11,311 42

The receipts for the year, as per the foregoing accounts, amounted to	$8,846,252 40
Balance of cash on hand, September 30, 1896, as per City Auditor's annual report	242,301 81
Total	$9,088,554 21

* In addition to this amount, the sum of $87,074.95 was received and credited to the Sinking Fund for Water Loan due July 1, 1900, the same being the excess of receipts over cost of maintenance and interest.

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EXPENDITURES.

ASYLUM WALLS AND BUILDINGS.

Repairs on buildings	$1,988 07

AUDITING DEPARTMENT.

Salary of City Auditor	$3,500 00
Salaries of assistants	3,341 71
Printing, stationery and supplies	297 20
Rent of telephone	60 00
Total	$7,198 91

BLACKSTONE PARK, IMPROVEMENT LOAN ACCOUNT.

Blackstone Boulevard parkway, City Council resolution No. 336, series of 1897	$1,999 78
River road, etc., City Council resolutions, Nos 181 and 436, series of 1896	1,736 50
Total	$3,736 28

CASINO, ROGER WILLIAMS PARK.

Carpenter work	$14,012 00
Mason work	9,386 00
Plumbing	2,295 00
Heating	1,197 00
Painting	850 00
Plans, etc	705 47
Gas fixtures	450 00
Electrical work	159 50
Total	$29,054 97

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CENTRAL OFFICE FIRE ALARM, ETC.

Alterations, additions, etc., in City Hall, City Council resolution No. 229, approved June 8, 1897:	
Copper skylight and ceiling light	$490 00
Carpenters', masons' and painters' work	218 36
Plumbing, etc	45 00
Total	$753 36

CITY CLERK'S DEPARTMENT.

Salary of City Clerk	$3,500 00
Salaries of assistants	3,975 79
Printing, stationery and supplies	470 18
Rent of telephones	220 00
Messenger service	15 00
Carriage hire	2 50
Total	$8,183 47

CITY COUNCIL.

Salaries of Aldermen	$5,000 00
Salaries of Common Councilmen	11,925 00
Advertising	1,660 37
Engraving Bonds for highway, school, sewer, and water loans	1,409 53
Laying out streets	560 35
Serving notices and summoning jurors	532 50
Printing, stationery, and supplies	521 42
Sale of real estate by Joint Standing Committee on City Property. City Council resolution No. 83, series of 1896	182 45
Carriage hire and car fare	59 23
Carriage for chaplain, Inauguration day	2 50
Mounting and engraving gavel for President Common Council	2 00
Expense of Joint Standing Committee, viz.:	
City Property	79 13
Claims	62 96
Harbor	47 23

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Fire	$46 34
City Engineer's department	42 77
Police	33 00
Highways	28 52
North Burial Ground	23 05
Parks	21 50
Education	7 62
Railroads	7 62
Lamps	7 13
Finance	5 75
Water	2 00
Expense of Board of Aldermen Committees, viz.:	
Lamps	5 69
Damage under Dog Law	3 90
Auctioneers	3 25
Streets	2 50
Expense of Joint Special Committee, viz.:	
Street pavements	96 75
Pending suits	7 39
Investigate charges preferred against City Engineer	4 00
Total	$22,893 45

CITY HALL.

Salary of City Messenger	$1,600 00
Pay rolls, janitors, etc	10,105 00
Electrical work, lights, speaking tubes etc	2,345 32
Carpenters', masons' and painters' work, repairs, etc	1,800 16
Plumbing, steam and gas pipe fittings, repairing, etc	1,711 30
Water	1,700 00
Fuel	1,694 20
Furniture and repairs	1,468 93
Gas	603 96
Hardware, tools and supplies	573 83
Ice	264 45
Flags, flag pole, repairs, etc	196 33

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Awnings, repairs, etc.	$184 00
Washing towels	183 38
Rent of telephones	180 00
Printing, stationery, etc.	163 07
Carriage hire	130 42
Freight, express, etc.	41 95
Elevator repairs, etc.	24 45
Car fares	20 25
Inspecting boilers	9 00
Total	$25,000 00

CLERK OF COMMON COUNCIL AND COMMITTEES.

Salary of Clerk	$2,800 00
Printing, stationery and supplies	267 18
Rent of telephone	120 00
Messenger service	8 80
Carriage hire	1 25
Total	$3,197 23

CONTINGENCIES.

Water for drinking troughs, Athenæum drinking fountain, and Soldiers' and Sailors' monument	$5,887 15
Killing, burying and listing dogs	5,033 80
Burial of and furnishing grave-stones for deceased indigent soldiers and sailors	1,350 20
Expert examination of accounts of City Treasurer	400 00
Books for city library	31 40
Daily and Sunday Journal, and binding	21 47
State of Rhode Island, costs in dog license cases in Sixth District Court	18 20
Rubber stamps, seal and Journal for Commissioners of Sinking Funds	12 91
Painting boat for Harbor Master	7 32
Expense of impounded horse	7 25
Town of East Providence, tax of 1896	5 00
Executions of the Supreme Court, Common Pleas Division, viz.:	

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George Paul Slade, by guardian, and Ruthven T. Slade, layout of Washington street	$49,768 90	
Brown University for taxes on real estate, assessed contrary to law.	2,749 15	
Martha A. Ordway, personal injury, defect in highway	600 00	
J. Joseph Croft, damage to carriage, by obstruction in North Main street near Cypress street in November, 1894	166 65—	$53,284 70

ORDERS OF THE CITY COUNCIL.

City taxes refunded, viz.:		
Estate of Julia Bullock, tax of 1896.	$278 40	
Adella F. Low, guardian, tax of 1896	136 95	
Emily E. Durfee, Tax of 1896	72 08	
Peter B. Cannon, Tax of 1896	28 35	
Eudora B. Beynon, Tax of 1896	26 40	
Frank H. Cady, Tax of 1896	24 75	
William E. Potter, Tax of 1896	24 75	
Ellen B. Rexford, Tax of 1896	19 80	
Richard B. Gibbs, Tax of 1896	16 50	
Public ice water fountains	5,599 28	
Fourth of July celebration	3,679 25	
Cabinets for Art Museum, Roger Williams Park	3,128 25	
Completion of sanitary equipment of school buildings	3,050 59	
Grading, etc., New City Yard	2,311 38	
Fitting up rooms in City Hall for Clerk of Committees and Board of Fire Commissioners	1,789 61	
New 30-ton scale for City Weigher, and removal of building to new location on Canal street	799 99	
Fitting up quarters in Old Central Police Station for Sealer of Weights and Measures	733 41	

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Appropriation for Memorial Day....	$700 00	
Expense of locating and maintaining bath-houses.	667 17	
Concreting sidewalks adjoining school houses.....	516 86	
Cutting grass, Dexter Training Field	399 34	
Band concerts, Roger Williams Park	300 00	
Ringing bells, Lincoln's and Washington's birthdays and Fourth of July.....	295 00	
Flags and poles for school estates...	271 20	
James E. Cameron, for personal injuries received by reason of a defect in the sidewalk on Valley street, near Atwells avenue....	250 00	
Settees for Davis Park	200 00	
Raffaello Maccaroni, for personal injuries received at Roger Williams Park.....	200 00	
Settees for Dexter Training Field...	190 75	
Public urinals and care of same....	165 51	
Ringing bell of Charitable Baptist Society.....	125 00	
Sprinkling streets in vicinity of City Hall.....	96 00	
Fourth of July celebration, 1896...	91 00	
Edwin Varley, personal injuries received on Kinsley avenue.....	12 50—	$26,200 07
Expense of the commissioners appointed by the Supreme Court, on the layout of:		
Huntington avenue, from Chambers street to Carter street.....	$7,289 69	
Charles street, from Mill street to Randall square.....	4,921 97	
Canal street, from Smith street to Mill street.....	2,182 32	
Hannah street, from southerly line of Amsterdam street to Atwells avenue.....	1,601 30	

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Mt. Pleasant avenue, from Chalkstone avenue to Atwells avenue.	$1,459 10	
Lexington avenue, from Niagara street to Broad street.....	1,270 46—	$18,724 84
Claims settled by committee on pending suits, viz.:		
Coller & Newhall, for damages by layout of Washington street...	$5,000 00	
Hannah J. Slattery, for damages by layout of Huntington avenue...	872 00	
John Carter Brown estate, for damages by layout of Williams street	768 79	
Ann Reilly, personal injuries received by defect in Westminster street.	600 00	
Margaret Quinn, personal injuries by a fall on Messer street.....	500 00	
Billings Brothers, damages for loss of horse and carriage stolen from Health Department.....	400 00	
George W. Sauthof, damages, etc., by accident on Adelaide avenue.	300 00	
Elizabeth Cook, personal injuries by obstruction in sidewalk on Snow street	300 00	
Thomas Rielly, damages by layout of Huntington avenue.....	281 00	
West Providence Land Co., damages by layout of Williams street....	126 45—	9,148 24
Frances E. Hill, et al., award by commissioners as confirmed by Supreme Court on the layout of Lexington avenue, from Niagara street to Broad street.....		5,204 70
Expense of school census, order of the Board of Aldermen, passed December 3, 1896.....		515 09
Total		$125,852 34

DALRYMPLE MEMORIAL BOAT HOUSE.

Construction of boat house.....	$2,789 42

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Plans, etc.		$71 39
Bronze memorial plate		68 00
Total		$2,928 81

DAVIS PARK, IMPROVEMENT LOAN ACCOUNT.

Purchase of land, as per resolution of the City Council No. 363, series of 1896		$34,000 00
Remodeling building, as per resolution of the City Council No. 596, series of 1894		230 20
Improvement of land, as per resolution of the City Council No. 427, series of 1893		12 86
Total		$34,243 06

DOG LICENSES.

Damages paid under authority of the dog law		$394 40

EDDY STREET ESTATE, ADJOINING CITY YARD.

Land adjoining City Yard, as per resolution of the City Council No. 447, series of 1896		$69,340 00

ELECTIONS.

Salaries of Board of Canvassers and Registration		$7,500 00
Printing, stationery, etc		2,976 99
Wardens, clerks, and supervisors		2,721 00
Clerical assistance to Board of Canvassers and Registration, see Chapter 363, Public Laws		1,936 01
Fitting up voting places, City Council resolution No. 718, series of 1891		761 77
Rent of rooms and land		509 00
Dinners and lunches:		
Board of Aldermen and clerks	$141 67	
Board of Canvassers and Registration	77 00	
Election police	64 50	
City Clerk's Department	35 05—	318 22
Carriage hire		272 90

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Counting machine	$240 38
Advertising	219 85
Assistants to Board of Aldermen counting ballots	160 00
Rent of telephone	120 00
Ballot boxes	108 80
Posting notices	62 00
Extra services, assisting City Clerk preparing ballots, etc	50 00
Amount paid assistants in City Clerk's Department, as per order of the Board of Aldermen, passed April 8, 1897	28 00
Moving voting booth, as per resolution of the City Council No. 230, series of 1897	15 00
Total	$17,999 92

EXECUTIVE DEPARTMENT.

Salary of Mayor	$5,000 00
Salaries of Clerk and Messenger	1,114 77
Orin S. Mowry, for services at Roger Williams Park, City Council resolution No. 441 series of 1892	852 01
Mayor's appropriation	500 00
Printing, stationery and supplies	157 94
Rent of telephones	155 46
Care of clock in Mayor's office	27 00
Carriage hire	19 95
Telephone messages and express	6 86
Total	$7,833 99

FIRE DEPARTMENT.

Salaries:

Board of Fire Commissioners	$2,400 00
Chief Engineer	2,000 00
Deputy Chief Engineer	1,500 00
Clerk	1,600 00
Superintendent of Fire Alarms	1,800 00
Assistant Engineers	2,800 00
Permanent men	248,437 50

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Call men	$4,854 54	
Disabled firemen, City Council resolution No. 518, series of 1897.	995 90—	$266,387 94
Water		$25,267 71
Hay, grain, feed, etc		9,330 39
Fire alarm telegraph and telephone system		6,478 78
New fire hose, 8,200 feet		5,580 00
Fuel		4,175 46
Hardware, tools and supplies		4,155 37
Gas		3,244 71
Horses		2,765 00
Repairs on apparatus		2,736 73
Horse shoeing		1,907 22
Bedding		1,499 03
Extra horse hire and help		914 12
Attendance of veterinary surgeon and dentist		849 00
Printing, stationery, advertising, etc		510 59
Harnesses and repairs		496 93
Rent of telephones		318 00
New wagon		275 00
Hose pipes, nozzles, repairs, etc		242 80
Furniture		202 18
Smoke helmets		200 00
Ice		178 10
Typewriter		80 00
Board of horse for Fire Marshal		52 29
Rent of land on Harrison street		50 00
Lumber		32 37
Examination of applicants		29 00
Freight, express, etc		13 47
Carriage hire		9 07
Repairing clocks		5 50
Total		$337,986 76

HARBOR.

Salary of Harbor Master	$1,200 00
Dredging in Providence river	9,081 06
Inspectors	325 50
Total	$10,606 56

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HEALTH DEPARTMENT.

Salary of Superintendent of Health	$2,000 00
Removal of swill	23,663 34
Board and treatment of persons afflicted with contagious diseases	6,688 47
Clerks and inspectors	3,639 50
Printing, advertising, stationery and supplies	2,010 05
Recording births, marriages and deaths	1,626 60
Horse, wagon and ambulance expenses	1,125 87
Serving notices	1,071 70
Disinfecting expenses	987 49
Compensation to clergymen and physicians, for reporting births; order of Board of Aldermen, passed September 21, 1895	652 50
Collecting reports of births	583 50
Men at dumping grounds	478 50
Vaccination expenses	318 00
Rent of telephones	179 25
Horse	175 00
Fees of Quarantine Sentinel	170 00
Undertakers' fees reporting deaths	157 95
Car fares	110 00
Cleaning out vaults, etc	96 26
Ascertaining and certifying to cause of death	44 00
Clergymen's fees reporting baptisms	37 70
Fuel	31 50
Carriage hire	5 25
Repairs at small-pox hospital	4 03
Total	$45,856 46

HIGHWAY LOAN, DUE APRIL 1, 1927.

Commissioners of Sinking Funds, amount of premium received from sale of bonds	$77,500 00

HIGHWAYS, SPECIAL ACCOUNT.

Expended under Chapter 637 of the ordinances, approved April 5, 1895:	
Approaches to new depot in Exchange Place, City Council resolution No. 151, series of 1895	$27,640 28

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Francis street, Cove and Exchange to Gaspee street, City Council resolution No. 151, series of 1895	$22,936 20
Washington street, from Dorrance street to Walker street, City Council resolutions Nos. 261 and 283, series of 1896	19,600 47
Promenade street, present end of pavement to Steeple street, City Council resolution No. 151, series of 1895	5,882 17
Blackstone street, from Eddy street to Allen's avenue, City Council resolution No. 346, series of 1896	5,408 12
Grand avenue, from Angell street to South Angell street, City Council resolution No. 152, series of 1897	3,232 64
Lisbon street, from Chalkstone avenue to Regent avenue, City Council resolution No. 183, series of 1896	2,841 46
Post Office Court, from Dyer street to Weybosset street, City Council resolution No. 418, series of 1896	2,683 58
Dunwell's Gangway, from Weybosset street to Dyer street, City Council resolution No. 410, series of 1896	2,582 57
Osborne street, from Vale street to Chalkstone avenue, City Council resolution No. 183, series of 1896	2,225 56
Fulton street, from Eddy street to Dorrance street, City Council resolution No. 282, series of 1896	2,173 15
Ruggles street, from Smith street to Chad Brown street, City Council resolution No. 152, series of 1897	2,045 07
Snow street, from Washington street to Westminster street, City Council resolution No. 261, series of 1896	2,007 54
Fuller street, from Wilson street to Sprague street, City Council resolution No. 346, series of 1896	1,710 13

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Gaspee street, from Kinsley avenue to first angle east of Francis street, City Council resolution No. 151, series of 1896	$1,674 41
Ontario street, from Melrose street to Hamilton street, City Council resolution No. 152, series of 1897	1,549 39
Chambers street, from Potter avenue to Huntington avenue, City Council resolution No. 152, series of 1897	1,310 67
Whitney street, from Elmwood avenue to Alger avenue, City Council resolution No. 152, series of 1897	1,113 26
Lyman street, from Dean street to Franklin street, City Council resolution No. 152, series of 1897	1,049 83
Westfield street, from Harrison street to Fuller street, City Council resolution No. 152, series of 1897	1,041 90
Globe street, from Plain street to Beacon avenue, City Council resolution No. 346, series of 1896	981 80
Andem street, from Academy avenue to Canton street, City Council resolution No. 152, series of 1897	972 39
Blackstone street, from Plain street to Culver street, City Council resolution No. 346, series of 1896	942 63
Kinsley avenue, from Gaspee street to Harris avenue, City Council resolution No. 151, series of 1895	909 67
Beach street, from Park street to Holden street, City Council resolution No. 346, series of 1896	902 28
Oregon street, from Fillmore street to Whipple street, City Council resolution No. 152, series of 1897	497 90
River avenue, from Chalkstone avenue to brook in River avenue, City Council resolution No. 183, series of 1896	17 89

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Union street, from Westminster street to Weybosset street, City Council resolution No. 347, series of 1896	$10 44
Total	$115,943 40

HIGHWAY SPECIAL ACCOUNT.

RECEIPT ACCOUNT.

Eddy street, from Henderson street to Public street, City Council resolution No. 543, series of 1895	$8,936 37
Eddy street, from Broad street to Morton street, City Council resolution No. 231, series of 1897	6,511 82
Milk street, from Chester avenue to Public street, City Council resolution No. 231, series of 1897	1,680 50
Brownell street, from Park street to Francis street, City Council resolution No. 231, series of 1897	664 55
Forest street, from Ivy street to East avenue, City Council resolution No. 544, series of 1895	50
Total	$17,793 74

INSPECTOR OF BUILDINGS.

Salary of Inspector of Buildings	$1,700 00
Salaries of assistant and clerk	2,140 79
Printing, stationery and supplies	163 99
Rent of telephone	120 00
Total	$4,124 78

INSPECTOR OF MILK.

Salary of Inspector of Milk	$2,000 00
Salary of collector of samples	783 21
Salary of assistant	600 00
Printing, stationery, advertising, supplies, etc.	472 18
Carriage hire	415 91

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Fitting up room in building on Fountain street, City Council resolution No. 419, series of 1896	$331 56
Fixtures, etc., as per order of the Board of Aldermen, passed February 18, 1897	249 28
Rent of rooms in Hodges building	137 49
Expert analysis of milk	97 50
Rent of telephone	60 00
Gas	29 40
Use of water	10 00
Electric lights	5 40
Samples of milk	5 35
Total	$5,197 28

INSPECTOR OF PLUMBING.

Salary of Inspector of Plumbing	$1,500 00
Salaries of assistants and clerk	2,976 21
Car fares	331 65
Printing, stationery and supplies	328 08
Expense of horse and buggy	320 75
Rent of telephone	117 00
Total	$5,573 69

INTEREST.

Highways	$27,387 51
School Houses and Lots, Loan Account	12,658 89
Roger Williams Park, Improvement Loan Account	10,201 39
Roger Williams Park, Land Account	9,645 14
Sewer Construction	8,527 78
State House site	8,523 61
New Central Police Station	6,729 17
Water Works	4,340 97
City Hall and Sewer Loan (refunded)	4,082 36
State Tax	3,286 68
Red Bridge (New)	2,749 10
Davis Park, Improvement Loan Account	1,794 44
Filling Cove Basin	1,718 88

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Eddy street estate	$1,502 36
Electric Wires, Placing Underground	1,209 68
Blackstone Park, Improvement Loan Account	1,003 48
Blackstone Park, Land Account	852 36
Weybosset Bridge and River Walls	83 33
Total	$106,297 13

INTEREST ON LOANS.

Highway Loan, due May 1, 1924	$48,000 00
Sewer Loan, due July 1, 1921	45,000 00
Sewer Loan, due May 1, 1925	32,000 00
City Hall and Sewer Loan, due June 1, 1899	27,000 00
Public Improvement Loan, due July 1, 1899	22,500 00
Park Loan, due March 1, 1922	20,000 00
Sewer Loan, due March 1, 1922	20,000 00
Sewer Loan, due April 1, 1923	20,000 00
Sewer Loan, due June 1, 1926	20,000 00
School Loan, due July 1, 1911	12,000 00
School Loan, due May 1, 1925	12,000 00
Public Improvement Loan, due July 1, 1900	7,300 00
Davis Estate Loan, due July 1, 1909	3,000 00
Total	$288,800 00

INTEREST ON WATER LOANS.

One year's interest on $4,680,000 at 5 per cent	$234,000 00
One year's interest on $820,000 at 6 per cent	49,200 00
One year's interest on $817,000 at 4 per cent	32,680 00
One year's interest on $483,000 at 3½ per cent	16,905 00
One year's interest on $200,000 at 4 per cent	8,000 00
Total	$340,785 00

LAW DEPARTMENT.

Salary of City Solicitor	$6,000 00
Salaries of assistants	4,500 00
Miscellaneous expenses	2,749 45
Total	$13,249 45

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LICENSE COMMISSIONERS.

Salaries of Commissioners	$2,800 00
Advertising	504 33
Printing, stationery, and supplies	85 61
Carriage hire	25 01
Total	$3,414 95

LOAN ACCOUNT.

City notes paid (see schedule)	$3,182,214 05

MUNICIPAL COURT.

Salary of Judge of Municipal Court	$2,000 00
Salary of Clerk of Municipal Court	1,700 00
Salaries of assistants	1,728 28
Printing, stationery, etc	454 42
Clerical assistance, City Council resolution No. 107, series of 1897	293 76
Rent of telephone	120 00
Total	$6,296 46

NORTH BURIAL GROUND.

Salary of Superintendent	$1,500 00
Salaries of clerks	1,296 51
Labor on improvements	7,259 56
Labor on grading	2,436 65
Labor on interments	1,642 00
Labor on avenues	1,257 00
Hardware, tools and supplies	771 33
Expenses of horses, wagons, carts, etc	725 74
Water	565 20
Brick, stone, cement, drain pipe, etc	449 54
Manure, fertilizer and loam	421 44
North Burial Ground Sinking Fund	343 20
Masons', carpenters', granite workers', labor, etc	318 35
Plumbing, steam and gas pipe fitting	281 02
Horses	275 00

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Trees, shrubs, grass and flower seeds	$258 65
Bound stones and markers	229 15
Freight and cartage	143 62
Rent of telephones	105 00
Painters' labor and material	82 54
Expense of Superintendent attending Annual Convention of American Cemetery Superintendents, City Council resolution No. 341, series of 1897.	75 00
Advertising	52 62
Fuel	33 25
Watering Branch and Smithfield avenues for 1897.	25 00
Furnishings	7 50
Services of appraiser	5 00
Total	$20,559 87

POLICE DEPARTMENT.

SALARIES.

Chief	$2,250 00	
Deputy Chief	1,550 00	
Captains	8,872 50	
Lieutenants	7,953 25	
Sergeants	17,986 27	
Detectives	6,843 55	
Police Surgeon	1,200 00	
Clerks	4,468 25	
Superintendent of Hacks	1,186 25	
Warrant Officers	1,881 00	
Messenger	312 86	
Matrons	1,099 74	
Hostler	730 00	
Batteryman and lineman	1,438 68	
Engineer	912 50	
Patrol drivers	8,760 00	
Janitors of the several stations	4,306 47	
Superannuated men	4,188 45	
Police Justices	2,000 00	
Patrolmen	233,952 48—	$311,892 25

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GENERAL ACCOUNT.

Gas	$3,840 06
Signal service and telephone lines	3,404 81
Coal	2,868 68
Barn expenses	2,678 76
Board of prisoners at Providence County Jail	1,101 43
Postage, printing, stationery, etc	964 31
Hardware, tools and supplies	892 66
Water	832 00
Horses	815 15
Miscellaneous	601 95
Food for prisoners	596 05
Horse shoeing	594 87
Transportation to State Institutions	442 40
Cost of cases discontinued in Sixth District Court	412 25
Wreaths, buttons, figures, belts, etc	399 73
Expenses of detectives	357 99
Wagons, repairs, etc	356 09
Electric lights, station one	300 65
Harnesses, repairs, etc	234 98
Furniture, repairs, etc	189 60
Attendance of veterinary surgeon and dentist	160 50
Ice	127 75
Telegraph and telephone messages, express, etc	98 15
Board and treatment of persons having delirium tremens	98 00
Wood	97 50
Directories	96 65
Revolvers, repairs, etc	94 10
Medical attendance at Providence County Jail	75 00
Laundry work	59 97
National flags, repairs, etc	50 20
Expense of Chief of Police attending National Association of Chiefs of Police, City Council resolution 184, series of 1897	50 00
Expense of police committee investigations	46 80
Bedding	35 70
Photographs of criminals	33 50

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Medical attendance in emergency cases	$25 00
Care of horse belonging to a person arrested and convicted	22 85
Witness fees	22 20
Typewriting	10 75
Lunches	10 50
Posting dog license notices	4 13
Carriage hire	4 00
Total	$334,999 92

PRINTING.

City Documents and city council resolutions	$5,654 17

PROVIDENCE PUBLIC LIBRARY.

Aid of Providence Public Library	$10,000 00

PUBLIC BUILDINGS.

Salary of Superintendent of Public Buildings	$1,700 00
Plumbing, steam and gas pipe fitting, furnace work, etc.	33,015 11
Carpenters', masons', and painters' work, public school buildings	29,377 06
Pay rolls	8,131 69
Furniture	7,410 67
Carpenters', masons', and painters' work, public buildings	4,352 73
Lumber	3,631 19
Hardware, tools, and supplies	3,526 69
Alterations at barn, Second Police Station, City Council resolution No. 95, series of 1897	3,232 17
Grading, turfing, removing ashes, etc.	2,987 81
Concrete and asphalt	2,724 17
Painters' stock	1,955 13
Electric apparatus, and repairs	1,485 60
Washout closets, Harrison street school, City Council resolution No. 342, series of 1896	1,361 45
Salary of clerk	1,305 36

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Horses, wagons, harnesses	$1,262 12
Bath houses, City Council resolutions No. 193, series of 1896, and No. 117, series of 1897	1,112 30
Blacksmithing and iron work	890 12
Renewing sanitary equipments in school buildings, City Council resolution No. 323, series of 1896	681 45
Connecting school estates with sewers, City Council resolutions No. 697, series of 1892, No. 625, series of 1893, and No. 45, series of 1894	611 29
Rent of telephones	585 34
Repairing sewer connections	563 32
Removing night soil	375 00
Removing bell tower, Cove street	285 00
Rent of Pioneer Hall lot	275 00
Fuel	188 00
Plans, etc., for addition to Police Station, Chafee street	137 50
Car fares for carpenters and painters	124 28
Flags and flag poles	68 50
Car fares, freight, etc	65 41
Advertising	44 55
Repairing around new city scales	28 35
Water	27 00
Inspecting boilers	20 00
Clocks and repairs	19 75
Inspecting electric wires across public buildings City Council resolution No. 65 series of 1897	15 00
Sealing and repairing city scales	6 85
Tuning and repairing pianos and organs	5 00
Repairs at small-pox hospital	4 03
Gas	1 89
Total	$113,593 88

PUBLIC LIGHTS.

Salary of Superintendent of Lights	$1,700 00
Electric lights	230,601 85
Gasoline lamps	23,826 20

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Gas for street lights	$12,959 77
Pay rolls	11,110 66
Moving and setting gas lamp posts	1,090 69
Naphtha	838 68
Tinman, teamster and assistant	606 00
Horses, wagons, harnesses, etc	353 69
Gas at Washington bridge	149 94
Installing incandescent lights, Red bridge	85 00
Stock for lantern repair shop	64 01
Tools and supplies	60 21
Printing and advertising	49 31
Gas at city yard	3 99
Total	$283,500 00

PUBLIC PARKS, GENERAL ACCOUNT.

Salary of Superintendent of Parks		$1,501 71
Hopkins park, City Council resolutions No. 611, series of 1893, and No. 420, series of 1896		1,023 75
Salary of Clerk of Park Commissioners		702 28
Assistant to Superintendent		501 50
Printing, stationery and supplies		314 23
Furniture		151 00
Freight		9 50
Expended on the following parks:		
Davis	$1,950 11	
Blackstone	875 27	
Hayward	419 78	
Tockwotton	268 12	
Abbott	187 82	
Prospect Terrace	113 61	
Washington	85 72	
Franklin	63 35	
Fenner	36 51	
Dexter Training field	19 90	
Columbus	12 05—	4,032 24
Total		$8,236 21

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PUBLIC PARKS, ROGER WILLIAMS PARK.

Pay rolls, labor and teams	$17,667 21
Care and improvement of grounds	2,477 82
Buildings, repairs and furnishings	2,406 61
Hardware, tools and supplies	2,351 04
Animals' feed	1,958 00
Salary of Curator at museum	999 06
Grain, feed, etc	925 75
Water	800 00
Fuel	736 60
Two moose	350 00
Wagons, harnesses, repairs, etc	344 00
Horse shoeing	175 62
Laying drain	158 75
Steam launches, repairs, etc	150 03
Horse	150 00
Rent of telephone	121 51
Boats, repairs and furnishings	101 46
Freight, express, telegrams, etc	68 37
Services of veterinary	68 00
Analyses of viscera of bear	40 00
Settees, repairs, etc	35 75
Analyses of water from well	15 00
Inspection of boilers, steam launches	10 00
Total	$32,110 58

PUBLIC SCHOOLS.

SALARIES.

Superintendent	$4,000 00
Secretary	1,200 00
Clerk of Standing Committees	600 00
Truant officer	1,500 00
Clerks	4,304 17
Purchasing agent	440 00
Music teachers	4,798 33
Sewing teachers	2,134 16
Supervisors of drawing	4,500 00
Supervisors of primary schools	2,140 00

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Supervisors of physical training		$1,880 00
Supervisor of penmanship		150 00
Permanent substitutes		290 50
Superintendent of janitors		1,000 00
And of teachers in the following schools:		
High School	$50,947 00	
Manual Training High School	21,461 34	
Classical High School	2,290 00—	74,698 34

GRAMMAR SCHOOLS.

Academy avenue	$10,843 51	
Branch avenue	7,031 38	
Bridgham	8,568 06	
Broad street	509 00	
Candace street	12,708 02	
Doyle avenue	12,690 53	
Federal street	9,918 19	
Manton	2,959 59	
Messer street	9,474 85	
Oxford street	9,876 55	
Peace street	9,151 51	
Point street	10,061 89	
Thayer street	10,582 92	
Vineyard street	7,699 30—	$122,075 30

PRIMARY SCHOOLS.

Admiral street	$2,318 17
Africa street	2,299 38
Aldrich street	1,130 75
Almy street	1,853 66
Amherst street	2,449 58
Arnold street	6,701 38
Atwells avenue	3,653 25
Beacon avenue	3,920 50
Bellevue avenue	2,340 67
Benefit street	5,036 87
Berlin street	2,467 75
Branch avenue	2,445 00
Bourn street	2,330 00

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California avenue	$2,329 50
Camp street	2,469 75
Carpenter street	2,330 08
Chalkstone avenue	2,445 33
Charles street	4,200 00
Chester avenue	2,390 33
Courtland street	2,305 58
Covell street	2,149 42
East street	3,675 75
Eddy street	2,446 42
Elm street	3,541 66
Elmwood avenue	3,511 50
Federal street	1,830 92
Friendship street	2,448 67
Graham street	2,410 25
Greeley street	2,241 50
Hammond street	3,679 50
Harriet street	2,420 50
Harris avenue	2,598 50
Hendrick street	2,374 67
Highland avenue	2,272 58
Jackson avenue	3,243 92
Julian street	2,898 00
Manning street	2,449 75
Niagara street	2,405 97
Plain street	2,138 96
Potters avenue	4,142 63
Public street	2,300 00
Putnam street	4,166 55
Ring street	1,793 75
River avenue	2,414 34
Roger Williams avenue	1,895 67
Ruggles street	2,270 30
Sisson street	1,699 50
Slater avenue	1,310 00
Smith street	3,354 00
Somerset street	2,273 75
State street	2,305 75
Summer street	3,659 25

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Thayer street	$1,251 50	
Thurber's avenue	3,668 25	
Union avenue	2,097 92	
Veazie street	3,672 00	
Warren street	2,447 67	
Willow street	4,548 75	
Willard avenue	2,435 00—	$161,862 55

KINDERGARTENS.

Almy street	$925 00	
Arnold street	920 00	
Beacon avenue	859 38	
Benefit street	1,783 42	
California avenue	87 50	
Charles street	925 00	
Chester avenue	75 00	
Federal street	1,007 50	
Julian street	879 25	
Potters avenue	891 25	
Putnam street	836 25	
Ring street	742 50	
Smith street	1,250 00	
Willow street	925 00—	12,107 05

COOKING SCHOOLS.

Beacon avenue	800 00	
Bridgham street	60 00	
Meeting street	800 00—	$1,660 00

Burnside street, special	547 50
Schools of special discipline	4,843 25

GENERAL EXPENSES.

Pay rolls, Public School Janitors	$37,559 50
Coal	28,776 80
Books	15,998 87
Printing, stationery and supplies	12,051 71
Furniture	7,888 75

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Water	$3,139 38
Supplies, Manual Training High School	2,281 96
Wood	1,621 75
Gas	1,519 28
Car fares	1,400 00
Janitors supplies	1,224 38
Freight and cartage	777 23
Kindergarten supplies	507 88
Books for library	494 32
Rhode Island School of Design	486 00
State of Rhode Island, costs in truancy cases in Sixth District Court	366 05
Carriage hire, for truant officer	258 00
Commitments to State Reform School	77 70
Rations supplied persons charged with truancy	3 10
Expense of pianos	358 26
Supplies, cooking school	354 33
Use of horse and carriage for Superintendent	330 00
Instructor in typewriting	325 00
Rent of rooms in Slade building	320 00
Sewing material	290 76
Expense of horse and carriage for Superintendent of Janitors	252 00
Rent of land of Dexter Donation	240 00
Rent of telephones	235 76
Ashmont street school, City Council resolutions No. 503, series of 1894, and No. 163, series of 1896	208 00
Rent of premises, Ashmont street	200 00
Care of clocks	198 00
Extra clerk hire	192 00
Expenses of teachers' classes	180 00
Traveling expenses	142 36

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Arbor day expenses	$110 40	
Alterations in Slade building for school supplies	91 79	
Tuition of city pupils paid Town of Cranston	78 75	
Flags and flag poles	38 32	
Advertising	35 62	
Ice	29 68	
Services of George E. Church at Oxford street grammar school during illness of principal	25 00	
Car fares, carpenters' and painters	2 50—	$120,671 19

EVENING SCHOOLS.

Salaries of principal and teachers	$27,293 50	
Rent of rooms	1,970 00	
Printing, stationery, and supplies	1,920 82	
Gas	862 24	
Coal	773 43	
Furniture	363 88	
Expense of pianos	308 00	
Typewriters	222 00	
Electric lights	173 43	
Expense of cooking school	155 85	
Advertising	128 97	
Carriage hire	96 00	
Cartage	53 48	
Examining candidates for positions as teachers in evening schools	53 00	
Extra help	48 50	
Books	33 00	
Rent of Hawkins street school, City Council resolution No. 184, series of 1895	15 00	
Plumbing, etc.	9 54	
Posting notices	8 00	
Pianist and singer at Evening High School	3 00—	34,491 64
Total		$561,893 98

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PUBLIC WORKS, BRIDGES.

Point street bridge:		
Attending draw	$3,930 25	
Repairs, etc., City Council resolution No. 480, series of 1896	4,829 75—	$8,760 00
Washington bridge:		
Attending draw	2,026 75	
Repairs, etc.	1,961 49—	3,988 24
Red bridge:		
Attending draw	2,135 80	
Repairs, etc.	1,309 32—	3,445 12
New Exchange Bridge, City Council resolution No. 346, series of 1895		3,933 07
Tar bridge, City Council resolution No. 404, series of 1896		1,971 11
Tools and supplies		1,514 85
Promenade street bridge, City Council resolution No. 252, series of 1895		1,506 11
Miscellaneous		696 55
Horses, wagons, harnesses, etc		434 50
Rent of keeper's house at Washington bridge		120 00
Water, keeper's house, Red bridge		30 70
Supplies for building, city yard		26 30
Rent of telephone		11 67
Experimental test, Weybosset bridge		1 65
Repairs on the following bridges:		
Burnside		283 62
Weybosset		267 46
Francis street		261 30
West river street		231 18
Atwell's avenue		123 89
Branch avenue		105 37
Valley street, south span		99 09
Valley street, north span		86 10
Acorn street		84 78
Mill street		70 20
Eagle street		68 10

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Delaine street	$48 33
Park street	45 70
Hawkins street	42 83
Smithfield avenue	40 63
Manton village	37 55
Nash lane	33 53
Branch avenue, at Wanskuck	29 44
Veazie street	25 80
Randall street	25 15
Crawford street	23 56
Whelden street	23 01
Washington Row	22 79
Cemetery street	17 80
Geneva	13 85
Charles street	13 70
Stevens street	8 72
Manton avenue	4 23
Smith street	4 05
Branch avenue culvert	3 44
Total	$28,585 07

PUBLIC WORKS, CITY ENGINEER'S DEPARTMENT.

Salary of City Engineer, (17 months)	$7,875 00
Salaries of assistant engineers	37,712 58
Tools and supplies	1,328 48
Car fares and traveling expenses	993 89
Rent of telephone	41 67
Photographs	32 40
Express, telegrams, etc.	15 47
Total	$47,999 49

PUBLIC WORKS, HIGHWAYS.

Pay rolls	$172,466 53
Crushed stone, labor, material, etc.	43,237 19
Material for repairing streets	6,066 00
Barn expenses	4,925 78
Steam rollers, repairs, etc.	3,393 28

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Hardware, tools and supplies	$2,833 16
Paving and crosswalk stone	2,598 03
Crusher, repairs, etc	2,341 39
Blacksmith and wheelwright supplies	1,659 89
Concrete and asphalt	1,307 38
Water	595 00
Repairing street sweepers	539 84
Wagons, carts, harnesses, repairs, etc	537 30
Office expenses	277 33
Horses	250 00
Steel road machine	235 00
Top buggy	150 00
Bringing Allens avenue to grade, City Council resolution No. 315, series of 1896	115 75
Veterinary services	106 75
Printing, stationery, etc	89 38
Car fares	85 00
Freight, express, etc	80 85
Damage to house, by steam roller	65 00
Gas	31 92
Rent of land for street drainage, etc	29 00
Rent of telephone	23 33
Sealing scales	1 50
Total	$244,041 58

PUBLIC WORKS, OFFICE.

Salary of Commissioner of Public Works	$5,000 00
Salary of secretary	2,700 00
Salaries of clerks	11,628 37
Printing, stationery, supplies, etc	722 08
Total	$20,050 45

PUBLIC WORKS, SEWER MAINTENANCE.

Superintendent and inspectors	$3,715 57
Pay rolls	24,301 79
Hardware, tools and supplies	2,996 46
Horses, wagons, harnesses, etc	2,680 42

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Repairs on sewers and basins	$1,454 76
Cleaning screens, outlet chamber	351 00
Carriage hire, inspector of drains	313 00
Fuel	150 20
Printing, stationery, etc	54 30
Water	50 00
Gas	36 33
Car fares and traveling expenses	27 75
Rent of telephone	23 33
Total	$36,154 91

PUBLIC WORKS, SIDEWALKS AND CURBING.

Curbing (49,424 feet, 90 corners)	$21,088 24
Concreting	3,635 30
Concreting sidewalks, City Council resolution No. 446, series of 1895	2,103 93
Printing, advertising, etc	65 64
Brick for repairing sidewalks	5 38
Total	$26,898 49

PUBLIC WORKS, WATER WORKS MAINTENANCE.

Superintendents, engineers, firemen and plumbers	$22,448 55
Meter department	19,350 22
Pay rolls, laborers, etc	14,667 76
Fuel	12,821 29
Town of Cranston, tax of 1896	5,716 35
Asphalt pavement at Hope Station	2,230 43
Horses, wagons, harnesses, etc	1,771 77
Hardware, tools and supplies	1,727 56
Inspection of Pawtuxet river	1,219 21
Repairs on engine houses, buildings, etc	1,163 29
Corliss engine, Pettaconset, repairs, etc	1,034 08
Teaming	559 42
Worthington high duty engine, Pettaconset, repairs, etc	544 28
Telephones	540 00
Town of North Providence, tax of 1896	400 00

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Gas	$378 63
Analyses of Pawtuxet water	375 00
Tallow, oil, waste and packing	361 45
Car fares	256 46
Preliminary examination of electrical condition of the water pipe system	225 00
Allowance to William H. Wing for damages caused by flooding of cellar at corner of South Water and College streets by leak in water main, City Council resolution No. 147, series of 1897	150 00
Water	128 00
Freight, express and telegrams	117 84
Nagle engine, Hope Station, repairs, etc	97 93
Fire hydrants, repairs, etc	76 14
Town of Warwick, tax of 1896	65 00
Holly engine, Hope Station, repairs, etc	27 41
Town of Lincoln, tax of 1896	25 00
Rent of land for railroad turnout at Pettaconset	20 00
Sealing and repairing scales	18 03
Concrete and asphalt	17 82
School District No. 1, Town of Warwick, tax of 1896	17 50
Expense of Commissioner of Public Works to Lowell, Mass	4 00
Carriage hire	2 57
Total	$88,557 99

RECORD COMMISSIONERS.

Printing	$816 98
Stationery and supplies	663 47
Clerical assistance	643 86
Portraits of George M. Carpenter	56 75
Express	16 19
Carriage hire	2 75
Total	$2,200 00

RECORDER OF DEEDS.

Salary of Recorder of Deeds	$1,400 00

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Assistants	$3,457 26
Printing, stationery and supplies	941 78
Total	$5,799 04

RED BRIDGE (NEW).

Labor and material for bridge	$235 35
Installing alarm bells at gates and incandescent lamps under draw	165 04
Supplies	2 16
Total	$402 55

RELIEF FUND FOR FIREMEN.

Allowance by committee to Mary J. McGale	$260 00

RELIEF FUND FOR POLICEMEN.

Allowance by committee to Harriet M. Holloway	$260 70

RHODE ISLAND HOSPITAL.

Ambulance service and use of beds	$8,000 00

ROGER WILLIAMS PARK, IMPROVEMENT LOAN ACCOUNT.

Bridges to island, improvement of Eleanor Field wood lot, so called, and completion of improvements, authorized by City Council resolution No. 505, series of 1896	$97,158 50
Removing mud, etc., from "No Bottom Pond District," City Council resolution No. 285, series of 1896	30,427 55
Boulevard, grading, etc., City Council resolution No. 180, series of 1896	9,749 91
Main avenue, etc., City Council resolution No. 583, series of 1894	6,170 21
Salaries of assistant engineers	2,188 53
Boat sheds, City Council resolution No. 105, series of 1895	1,556 00
Wharf at new boat house, City Council resolution No. 55, series of 1896	420 00

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Cutting wood, brush, etc., from main avenue, City Council resolution No. 599, series of 1894		$386 36
Building dam, Cunliff's Pond, City Council resolution No. 491, series of 1895.....		92 89
Total.....		$148,149 45

ROGER WILLIAMS PARK, LAND ACCOUNT.

Land adjoining Roger Williams Park, to be used for the Union Veterans Grove Association, City Council resolution No. 115, series of 1897		$4,482 69
Land for extension of Roger Williams Park, City Council resolution No. 679, series of 1892...		2,332 71
Total.....		$6,815 40

SCHOOL HOUSES AND LOTS.

Concreting sidewalks adjoining school estates, City Council resolution No. 730, series of 1892...		$140 94

SCHOOL HOUSES AND LOTS, LOAN ACCOUNT.

Expended under authority of chapter 474 of the ordinances:		
New High School, Summer street, City Council resolution No. 101, series of 1897.....		$120 14
Expended under authority of chapter 628 of the ordinances:		
New High School, Summer street, City Council resolution No. 509, series of 1895:		
Construction.....	$53,125 11	
Furnishings.....	14,797 73—	67,922 84
Site for New High School, Summer street, City Council resolution No. 115, series of 1895...		47,793 67
Site for school building corner Chalkstone and Mt. Pleasant avenues, City Council resolution No. 523, series of 1897		4,205 00

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High School building, second district, City Council resolutions Nos. 174, 310 and 101, series of 1896 and 1897		$2,397 04
Ruggles street school, City Council resolutions Nos. 153 and 341, series of 1895 and 1896		248 79
Plans, etc., for a primary and kindergarten school, City Council resolution No. 62, series of 1897		217 00
Union avenue school, City Council resolution No. 295, series of 1895:		
Furnishings		111 74
Total expended under chapter 628		$122,896 08
Expended under authority of chapter 712 of the ordinances:		
High school building, second district, City Council resolutions Nos. 174 and 310, series of 1896:		
Construction	$69,873 06	
Furnishings	3,864 00—	$73,737 06
Grammar school, Broad and Eddy streets, City Council resolutions Nos. 175, 293, 310 and 101, series of 1896 and 1897:		
Construction	$49,369 90	
Furnishings	11,406 04—	60,775 94
New High School, Sumner street, City Council resolutions Nos. 509 and 101, series of 1895 and 1897:		
Construction	$11,031 55	
Furnishings	2,843 32—	13,874 87
Site for a school building East avenue, City Council resolution No. 465, series of 1896		7,232 16
Total expended under chapter 712		$155,620 03
Expended under authority of chapter 792 of the ordinances:		
Primary and kindergarten school, Montague street, City Council resolution No. 254, series of 1897		$8,320 37

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Primary and kindergarten school Mt. Pleasant avenue, City Council resolution No. 255, series of 1897	$3,826 79
Site for a primary school building in the first ward, City Council resolution No. 253, series of 1897	3,750 00
Total expended under chapter 792	$15,897 16

SUMMARY.

Total expended under chapter 474	$120 14
Total expended under chapter 628	122,896 08
Total expended under chapter 712	155,620 03
Total expended under chapter 792	15,897 16
Total	$294,533 41

SCHOOL LOAN DUE APRIL 1, 1927.

Commissioners of Sinking Funds, amount of premium received from sale of bonds	$69,650 00

SENATOR ANTHONY PRIZE FUND, INCOME.

Preston and Rounds Company	$48 00

SEWER ASSESSMENTS.

For amounts refunded in the following cases:	
Isaac D. Miner	$26 58
Henrietta H. Hopkins	36 00
Total	$62 58

SEWER CONSTRUCTION.

Payments on contracts for sewers in the following streets:	
Huntington avenue, Carter and Vineyard streets	$7,089 45
Henderson street, from Allens avenue to the river	6,032 42

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Ruggles street and Chalkstone avenue.....	$4,410 57
Pekin and Osborn streets and Franklin avenue....	3,253 92
Arlington avenue, from Olney street to Irving avenue	3,235 12
Chalkstone and Regent avenues and Lisbon street..	2,718 29
Doyle avenue, from East avenue to Elmgrove avenue.....	2,585 79
Fillmore and Oregon streets.....	2,571 64
Smith, Violet and Ayrault streets.....	2,500 31
Smith street, from Elmhurst to McCaughin streets.	2,386 52
Prospect street, from Barnes street to Halsey street.	2,104 89
Burrington street and Jackson avenue.....	2,103 39
Irving and Humboldt avenues.....	2,076 01
Vale and Danforth streets.....	1,938 54
Miner, Sayles and Oxford streets and Lexington avenue.....	1,818 14
Baxter, Gladstone and Ontario streets.....	1,523 12
Peace and Bucklin streets.....	1,472 99
Franklin, Lyman and Dean streets.....	1,393 88
Bacon, North Main, Randall and Printery streets..	1,299 77
Calder and Madison streets.....	1,123 76
Whitmarsh, Gilmore, D and Booth streets.....	1,109 52
Douglas avenue, from Whipple street to Vale street.	1,012 34
Power and Roger streets.....	996 66
Milk and Richardson streets, Prairie avenue and Broad street.....	936 51
Irving and Broad streets.....	763 73
Paine street, from Cranston street to Messer street.	631 41
Link street, from Bridge street to South Main street.	606 12
Grove street, from Almy street to Courtland street.	568 10
Princeton avenue, from Updike street to Elmwood avenue.....	503 58
Broad street, from Public street to Laura street...	497 43
Gallup street, from Ocean street to Rugby street..	387 76
Esten street, from Orms street to Smith street....	370 30
University avenue, from Slater avenue to Blackstone Boulevard.....	213 91
Wickenden street, from Hope street easterly.....	195 16
Friendship street, from present end of sewer about 40 feet southwest of Prince street.....	55 71

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Reservations on sewers in the following streets, viz.:	
Harris avenue, from Acorn street to Woonasquatucket river	$1,326 00
Blackstone street, from Allen's avenue easterly	388 00
Harris avenue, from Grove street to north of Atwells avenue	309 00
Hope street, from East avenue to Thayer street	247 00
Wheaton and South Court streets	152 00
President avenue and Blackstone boulevard	118 00
Francis, Lincoln and Gaspee streets	115 00
Dexter street, from Miller street to Cranston street	101 00
Melrose, Broad, Early and Colfax streets	84 00
Broad and Oxford streets	58 00
Camp street, from Doyle avenue to Howell street	51 00
Felix street, from Chalkstone avenue to Valley street	47 00
Harriet and Sayles streets	31 00
Thayer street, from Arnold street to Transit street	18 00
Jewett street, from Park street to Holden street	17 00
Globe street, from Beacon avenue to Plain street	15 00
Grand avenue, from Angell street to Oriole avenue	15 00
Liberty street, from a point 200 feet north of Smith street to sewer in Smith street	10 00
Sundries, viz.:	
Pay rolls, laborers, and inspectors	13,999 23
Brick	12,270 13
Man-hole and catch-basin covers, rings, steps, etc.	4,657 79
Cement	3,501 85
Teaming	2,160 38
Sewer pipe	800 77
Catch-basin inlet stones	605 00
Flag stones	508 08
Advertising	199 41
Tools and supplies	148 55
Concrete	78 70
Coal	34 13

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IMPROVED SEWERAGE ACCOUNT.

For construction	$117,013 15
Salaries of assistant engineers on work of improved sewerage	12,383 85
Total	$233,949 78

SEWER LOAN DUE APRIL 1, 1927.

Commissioners of Sinking Funds, amount of premium received from sale of bonds	$45,715 00

SINKING FUNDS.

For City Hall and Sewer Loan, due June 1, 1899.	$19,000 00
For Davis Estate Loan, due July 1, 1909	3,000 00
For Highway Loan, due May 1, 1924	25,000 00
For Park Loan, due March 1, 1922	10,000 00
For Public Improvement Loan, due July 1, 1899	13,550 00
For Public Improvement Loan, due July 1, 1900	4,500 00
For School Loan, due July 1, 1911	13,300 00
For School Loan, due May 1, 1925	5,000 00
For Sewer Loan, due July 1, 1921	25,000 00
For Sewer Loan, due March 1, 1922	10,000 00
For Sewer Loan, due April 1, 1823	10,000 00
For Sewer Loan, due May 1, 1925	15,000 00
For Sewer Loan, due June 1, 1926	10,000 00
Total	$163,350 00

SINKING FUND WATER LOAN DUE JULY 1, 1900.

Excess of receipts from water rents over and above the expense of managing the water works, for the financial year ending September 30, 1897.	$87,074 95

SPECIAL HIGHWAY LOANS.

City note No. 77 E, issued under authority of chapter 243 of the City Ordinances, paid November 17, 1896	$180,000 00
City notes Nos. 80 E, to 87 E, inclusive, issued under authority of chapter 243 of the City Ordinances, paid July 16, 1897	160,000 00

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City note No. 72 E, issued under authority of chapter 91 of the City Ordinances, paid November 17, 1896	$20,000 00
City note No 79 E, issued under authority of chapter 243 of the City Ordinances paid November 17, 1896	20,000 00
Total	$380,000 00

STATE OF RHODE ISLAND.

The proportion of receipts from licenses paid the State, viz.:	
City licenses	$3,434 50
Liquor licenses	47,711 25
Total	$51,145 75

STATE TAX.

State of Rhode Island, one half tax due December 15, 1896	$151,692 96
One half due June 15, 1897	151,692 95
Total	$303,385 91

STREET SIGNS AND NUMBERS.

(Now Sealer of Weights and Measures.)

Salary of Superintendent	$1,557 98
Street Numbers	117 41
Use of team	93 00
Street signs	80 54
Stationery and supplies	51 10
Fairbanks scale	25 00
Advertising	18 43
Water supply	4 27
Repairing scales	2 00
Total	$1,949 73

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SUPPORT OF THE POOR.

Salary of Overseer of the Poor	$1,400 00
Charity building and wood yard	11,768 71
Allowance and relief	6,576 53
Coal	1,149 72
Burial expenses	877 36
Medical attendance	826 58
Rhode Island Hospital, board, etc	374 00
Shoes	373 35
Transportation	347 75
Expenses of the Overseer attending National Conference of Charities and Corrections, at Toronto, City Council resolution No. 265, series of 1897.	74 00
Total	$23,768 00

TAX DEPARTMENT.

Salaries of Assessors of Taxes	$7,200 00
Salaries of assistants	5,290 33
Poll tax expenses, including assistance employed under authority of City Council resolution No. 659, series of 1891	2,122 10
Additional assistance to Assessors of Taxes as per resolution of the City Council No. 659, series of 1891	1,114 00
Printing, stationery, etc	652 47
Carriage hire	184 19
Lunches	154 50
Rent of telephone	120 00
Car fares	60 00
Total	$16,897 59

TREASURY DEPARTMENT.

Salary of City Treasurer	$4,000 00
Salary of Deputy City Treasurer	2,500 00
Salaries of assistants	10,608 20
Expense of collecting poll tax	1,898 18
Printing, stationery, etc	1,388 98
Serving notices for unpaid real estate taxes of 1896	1,297 38
Repairing vault in office	1,060 00

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Searching titles, etc., relative to estates levied upon for unpaid taxes of 1896	$700 00
Advertising	638 67
Paymaster's horse and carriage expenses	416 82
Examining records, etc., for sale of real estate for unpaid sewer assessments	250 00
Lunches	167 30
Serving notices for unpaid sewer assessments	143 76
Rent of telephone	120 00
Auctioneer's expenses, for sale of real estate for unpaid taxes and sewer assessments	102 35
Carriage hire	72 14
Traveling expenses of City Treasurer	20 58
Express, telephone, telegrams, etc	19 14
Rent of P. O. Box	12 00
Total	$25,415 50

WATER LOAN, DUE APRIL 1, 1927.

Commissioners of Sinking Funds, amount of premium received from sale of bonds	$35,775 00

WATER WORKS, CONSTRUCTION.

Special system for fire protection, City Council resolution No. 234, series of 1896	$86,291 27
Pay rolls, laying pipe	13,044 15
Holly high duty engine at Hope station	10,000 00
Water gates, valves, etc	8,426 85
Lead, lead pipe, etc	5,356 13
Iron pipe	4,781 85
Foreman, clerks, etc	2,944 00
Babcock & Wilcox boilers at Hope station	2,566 00
Tools and supplies	2,027 71
Special castings	1,315 99
Teaming	1,315 24
Taps, stops, plugs, blow-offs, etc	1,224 67
Horses, wagons, harnesses, etc	1,175 73
Inspecting water pipes	122 50
Car fares	50 00

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Repairs on buildings	$43 07
Advertising	28 90
Fuel	20 55
Freight, express and telegrams	16 53
One-half expense of lunches at test of Holly engine at Hope station	13 80
Traveling expenses	10 00
Sealing scales	5 49
Barn at Fruit Hill	1 20
Total	$140,781 63

WEYBOSSET BRIDGE AND RIVER WALLS.

Building abutment walls and piers	$25,868 01
Supplies	2,423 23
Pay-rolls, laborers and inspectors	1,211 14
Foot bridge	1,113 66
Advertising	127 04
Printing	99 30
Telephone	49 50
Total	$30,891 88

The expense for the year, as per the foregoing accounts, amounted to	$8,860,997 35
Balance in the City Treasury, September 30, 1897.	227,556 86
	$9,088,554 21

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LOAN ACCOUNT.

Dr.

Number.	Rate.	Paid.	Amount.
City Note No. 1909	5 per cent.	May 21, 1897	$150,000 00
1911	5 "	May 21, 1897	20,000 00
1912	5 "	March 19, 1897	80,000 00
1914	5 "	May 21, 1897	90,000 00
1915	5 "	" 21, 1897	78,000 00
1916	5 "	" 21, 1897	3,000 00
1917	5 "	" 21, 1897	19,000 00
1918	5 "	" 21, 1897	5,000 00
1919	5 "	" 21, 1897	19,000 00
1921	5 "	" 21, 1897	61,000 00
1923	5 "	" 21, 1897	25,000 00
1924	5 "	" 21, 1897	10,000 00
1925	5 "	April 1, 1897	150,000 00
1928	5 "	May 21, 1897	50,000 00
1929	5 "	" 21, 1897	30,000 00
1930	5 "	" 21, 1897	5,000 00
1931	5 "	April 1, 1897	25,000 00
1933	5 "	May 21, 1897	1,000 00
74 "E"	5 "	April 1, 1897	42,000 00
75 "E"	5 "	" 1, 1897	8,000 00
76 "E"	5 "	" 1, 1897	50,000 00
1934	5 "	May 21, 1897	14,000 00
1935	5 "	" 21, 1897	16,000 00
1936	5 "	" 21, 1897	23,000 00
1937	5 "	" 21, 1897	7,000 00
1942	5 "	" 21, 1897	10,000 00
1944	5 "	April 1, 1897	17,000 00
1945	5 "	" 1, 1897	48,000 00
1946	5 "	May 21, 1897	20,000 00
1947	5 "	April 1, 1897	30,000 00
1948	5 "	May 21, 1897	12,500 00
1949	5 "	" 21, 1897	7,000 00
1950	5 "	" 21, 1897	5,000 00
1951	5 "	" 21, 1897	7,000 00
1952	5 "	" 21, 1897	14,000 00
1953	5 "	" 21, 1897	2,000 00
1954	5 "	" 21, 1897	9,000 00
1955	5 "	" 21, 1897	91,000 00
1956	5 "	" 21, 1897	5,000 00
1957	5 "	" 21, 1897	5,500 00
1958	5 "	" 21, 1897	2,000 00
1959	5 "	April 1, 1897	4,000 00
1960	5 "	" 1, 1897	1,000 00
1961	5 "	" 1, 1897	1,000 00
1962	5 "	" 1, 1897	1,000 00
1963	5 "	" 1, 1897	50,000 00
1964	5 "	May 21, 1897	18,000 00
1965	5 "	April 1, 1897	60,000 00
Amount carried forward			$1,401,000 00

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LOAN ACCOUNT.

Dr.

Number.	Rate.	Paid.	Amount.
Amount brought forward			$1,401,000 00
City Note No. 1966	5 per cent.	May 21, 1897	10,000 00
1967	5 "	" 21, 1897	25,000 00
1968	5 "	April 1, 1897	100,000 00
1969	5 "	April 1, 1897	125,000 00
1970	5 "	October 22, 1896	151,692 95
1971	5 "	May 21, 1897	10,000 00
1972	5 "	" 21, 1897	75,000 00
1973	5 "	April 1, 1897	125,000 00
1974	5 "	" 1, 1897	100,000 00
1975	5 "	" 1, 1897	50,000 00
1976	5 "	" 1, 1897	100,000 00
1977	5 "	May 21, 1897	11,488 15
1978	5 "	" 21, 1897	52,000 00
1979	5 "	" 21, 1897	69,340 00
1980	5 "	" 21, 1897	50,000 00
1981	5 "	April 1, 1897	68,000 00
1982	5 "	" 1, 1897	7,000 00
1983	5 "	" 1, 1897	25,000 00
1984	5 "	" 1, 1897	23,000 00
1985	5 "	" 1, 1897	2,000 00
1986	5 "	" 1, 1897	63,000 00
1987	5 "	" 1, 1897	37,000 00
1988	5 "	" 1, 1897	17,000 00
1989	5 "	" 1, 1897	13,000 00
1990	5 "	" 1, 1897	8,000 00
1991	5 "	" 1, 1897	10,000 00
1992	5 "	" 1, 1897	2,000 00
1993	5 "	" 1, 1897	2,000 00
1994	5 "	" 1, 1897	4,000 00
1995	5 "	" 1, 1897	4,000 00
1996	5 "	" 1, 1897	7,000 00
1997	5 "	" 1, 1897	14,000 00
1998	5 "	" 1, 1897	24,000 00
1999	5 "	" 1, 1897	11,000 00
2000	5 "	" 1, 1897	14,000 00
2001	5 "	May 21, 1897	15,000 00
2002	5 "	" 21, 1897	65,000 00
2003	5 "	July 16, 1897	151,692 95
2004	5 "	" 16, 1897	75,000 00
2005	5 "	" 16, 1897	40,000 00
2006	5 "	" 16, 1897	25,000 00
Balance unpaid September 30, 1897			$555,692 95
			$3,737,907 00

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LOAN ACCOUNT.

Cr.

Number.	Rate.	Due.	Amount.
Balance September 30, 1896			$2,336,181 10
City Note No. 1979	5 per cent.	On demand	69,340 00
1980	5 "	"	50,000 00
1981	5 "	"	68,000 00
1982	5 "	"	7,000 00
1983	5 "	"	25,000 00
1984	5 "	"	23,000 00
1985	5 "	"	2,000 00
1986	5 "	"	63,000 00
1987	5 "	"	37,000 00
1988	5 "	"	17,000 00
1989	5 "	"	13,000 00
1990	5 "	"	8,000 00
1991	5 "	"	10,000 00
1992	5 "	"	2,000 00
1993	5 "	"	2,000 00
1994	5 "	"	4,000 00
1995	5 "	"	4,000 00
1996	5 "	"	7,000 00
1997	5 "	"	14,000 00
1998	5 "	"	24,000 00
1999	5 "	"	11,000 00
2000	5 "	"	14,000 00
2001	5 "	"	15,000 00
2002	5 "	"	65,000 00
2003	5 "	"	151,692 95
2004	5 "	"	75,000 00
2005	5 "	"	40,000 00
2006	5 "	"	25,000 00
2007	4 "	"	151,692 95
2008	4 "	"	75,000 00
2009	4 "	"	40,000 00
2010	4 "	"	25,000 00
2011	4 "	"	34,000 00
2012	4 "	"	3,000 00
2013	4 "	"	12,000 00
2014	4 "	"	14,000 00
2015	4 "	"	25,000 00
2016	4 "	"	50,000 00
2017	4 "	"	75,000 00
2018	4 "	"	50,000 00
2019	4 "	"	1,000 00
			$3,737,907 00

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FUNDED DEBT.

The funded debt of the City of Providence, on September 30, 1897, being comprised of bonds and certificates of the following denominations, viz.:

CITY HALL AND SEWER LOAN.

Due June 1, 1899, Interest at 4½ Per Cent.

218 Coupon bonds, $1,000 each	$218,000 00	
12 Registered bonds, $1,000 each	12,000 00	
74 Registered bonds, $5,000 each	370,000 00—	$600,000 00

PUBLIC IMPROVEMENT LOANS.

Due July 1, 1899, Interest at 5 Per Cent.

1 Registered bond for	$4,000 00	
1 Registered bond for	15,000 00	
1 Registered bond for	33,000 00	
1 Registered bond for	40,000 00	
1 Registered bond for	59,000 00	
1 Registered bond for	68,000 00	
1 Registered bond for	129,000 00	
1 Registered bond for	102,000 00—	450,000 00

Due July 1, 1900, Interest at 5 Per Cent.

1 Registered bond for	$5,000 00	
1 Registered bond for	10,000 00	
1 Registered bond for	11,000 00	
1 Registered bond for	13,000 00	
1 Registered bond for	16,000 00	
1 Registered bond for	20,000 00	
1 Registered bond for	25,000 00	
1 Registered bond for	46,000 00—	146,000 00

Due May 1, 1937, Interest at 3½ Per Cent.

32 Registered bonds, $20,000 each	640,000 00

WATER LOANS.

Due July 1, 1900, Interest at 5 Per Cent.

1256 Coupon bonds, $1,000 each	$1,256,000 00

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INTEREST at 6 PER CENT.

493 Coupon bonds, $1,000 each	$493,000 00	
62 Registered bonds, $1,000 each	62,000 00	
15 Registered bonds, $5,000 each	75,000 00	
17 Registered bonds, $10,000 each	170,000 00	
1 Registered bond, $20,000	20,000 00—	$820,000 00

INTEREST AT 5 PER CENT.

364 Registered bonds, $1,000 each	$364,000 00	
96 Registered bonds, $5,000 each	480,000 00	
26 Registered bonds, $10,000 each	260,000 00	
41 Registered bonds, $20,000 each	820,000 00—	1,924 000 00
		$4,000,000 00

DUE JULY 1, 1906, INTEREST AT 5 PER CENT.

349 Coupon bonds, $1,000 each	$349,000 00	
181 Registered bonds, $1,000 each	181,000 00	
48 Registered bonds, $5,000 each	240,000 00	
27 Registered bonds, $10,000 each	270,000 00	
23 Registered bonds, $20,000 each	460,000 00—	1,500,000 00

DUE SEPTEMBER 1, 1916, INTEREST AT 3½ PER CENT.

50 Coupon bonds, $1,000 each	$50,000 00	
18 Registered bonds, $1,000 each	18,000 00	
83 Registered bonds, $5,000 each	415,000 00—	483,000 00

DUE APRIL 1, 1923, INTEREST AT 4 PER CENT.

241 Coupon bonds, $1,000 each	$241,000 00	
11 Registered bonds, $1,000 each	11,000 00	
5 Registered bonds, $5,000 each	25,000 00	
18 Registered bonds, $10,000 each	180,000 00	
18 Registered bonds, $20,000 each	360,000 00—	817,000 00

DUE JUNE 1, 1926, INTEREST AT 4 PER CENT.

10 Registered bonds, $20,000 each		200,000 00

DUE APRIL 1, 1927, INTEREST AT 4 PER CENT.

10 Registered bonds, $1,000 each	$10,000 00	
14 Registered bonds, $5,000 each	70,000 00	
3 Registered bonds, $10,000 each	30,000 00	
7 Registered bonds, $20,000 each	140,000 00	250,000 00

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DAVIS ESTATE LOAN.

Due July 1, 1909, Interest at 4 Per Cent.

46 Coupon bonds, $1,000 each	$46,000 00	
24 Registered bonds, $1,000 each	24,000 00	
1 Registered bond	5,000 00—	$75,000 00

HIGHWAY LOAN.

Due May 1, 1924, Interest at 4 Per Cent.

10 Registered bonds, $1,000 each	$10,000 00	
2 Registered bonds, $5,000 each	10,000 00	
4 Registered bonds, $10,000 each	40,000 00	
57 Registered bonds, $20,000 each	1,140,000 00—	$1,200,000 00

Due April 1, 1927, Interest at 4 Per Cent.

25 Registered bonds, $20,000 each		500,000 00

SCHOOL LOANS.

Due July 1, 1911, Interest at 4 Per Cent.

118 Coupon bonds, $1,000 each	$118,000 00	
42 Registered bonds, $1,000 each	42,000 00	
10 Registered bonds, $5,000 each	50,000 00	
9 Registered bonds, $10,000 each	90,000 00—	$300,000 00

Due May 1, 1925, Interest at 4 Per Cent.

15 Registered bonds, $20,000 each		300,000 00

Due April 1, 1927, Interest at 4 Per Cent.

307 Coupon bonds, $1,000 each	$307,000 00	
3 Registered bonds, $1,000 each	3,000 00	
5 Registered bonds, $10,000 each	50,000 00	
7 Registered bonds, $20,000 each	140,000 00—	500,000 00

SEWER LOANS.

Due July 1, 1921, Interest at 4 Per Cent.

610 Coupon bonds, $1,000 each	$610,000 00	
70 Registered bonds, $1,000 each	70,000 00	
9 Registered bonds, $5,000 each	45,000 00	
20 Registered bonds, $10,000 each	200,000 00	
10 Registered bonds, $20,000 each	200,000 00—	$1,125,000 00

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DUE MARCH 1, 1922, INTEREST AT 4 PER CENT.

75 Coupon bonds, $1,000 each	$75,000 00	
40 Registered bonds, $1,000 each	40,000 00	
5 Registered bonds, $5,000 each	25,000 00	
8 Registered bonds, $10,000 each	80,000 00	
14 Registered bonds, $20,000 each	280,000 00—	$500,000 00

DUE APRIL 1, 1923, INTEREST AT 4 PER CENT.

148 Coupon bonds, $1,000 each	$148,000 00	
17 Registered bonds, $1,000 each	17,000 00	
13 Registered bonds, $5,000 each	65,000 00	
21 Registered bonds, $10,000 each	210,000 00	
3 Registered bonds, $20,000 each	60,000 00—	500,000 00

DUE MAY 1, 1925, INTEREST AT 4 PER CENT.

510 Coupon bonds, $1,000 each	$510,000 00	
20 Registered bonds, $1,000 each	20,000 00	
6 Registered bonds, $5,000 each	30,000 00	
6 Registered bonds, $10,000 each	60,000 00	
9 Registered bonds, $20,000 each	180,000 00—	800,000 00

DUE JUNE 1, 1926, INTEREST AT 4 PER CENT.

274 Coupon bonds, $1,000 each	$274,000 00	
6 Registered bonds, $1,000 each	6,000 00	
2 Registered bonds, $5,000 each	10,000 00	
21 Registered bonds, $10,000 each	210,000 00—	500,000 00

DUE APRIL 1, 1927, INTEREST AT 4 PER CENT.

50 Coupon bonds, $1,000 each	$50,000 00	
1 Registered bond	10,000 00	
12 Registered bonds, $20,000 each	240,000 00—	300,000 00

PARK LOAN.

DUE MARCH 1, 1922, INTEREST AT 4 PER CENT.

102 Coupon bonds, $1,000 each	$102,000 00	
13 Registered bonds, $1,000 each	13,000 00	
9 Registered bonds, $5,000 each	45,000 00	
2 Registered bonds, $10,000 each	20,000 00	
16 Registered bonds, $20,000 each	320,000 00—	$500,000 00

DUE MAY 1, 1947, INTEREST AT 4 PER CENT.

4 Registered bonds, $1,000 each	$4,000 00	
1 Registered bond	10,000 00	
33 Registered bonds, $20,000 each	660,000 00—	674,000 00

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SPECIAL HIGHWAY LOAN.

Interest at 4 Per Cent.

8 Notes payable on demand, $20,000 each	$160,000 00

RECAPITULATION,

City Hall and Sewer Loan, due in 1899	$600,000 00
Public Improvement Loan, due in 1899	450,000 00
Public Improvement Loan, due in 1900	146,000 00
Public Improvement Loan, due in 1937	640,000 00
Water Loan, due in 1900	4,000,000 00
Water Loan, due in 1906	1,500,000 00
Water Loan, due in 1916	483,000 00
Water Loan, due in 1923	817,000 00
Water Loan, due in 1926	200,000 00
Water Loan, due in 1927	250,000 00
Davis Estate Loan, due in 1909	75,000 00
School Loan, due in 1911	300,000 00
School Loan, due in 1925	300,000 00
School Loan, due in 1927	500,000 00
Sewer Loan, due in 1921	1,125,000 00
Sewer Loan, due in 1922	500,000 00
Sewer Loan, due in 1923	500,000 00
Sewer Loan, due in 1925	800,000 00
Sewer Loan, due in 1926	500,000 00
Sewer Loan, due in 1927	300,000 00
Park Loan, due in 1922	500,000 00
Park Loan, due in 1947	674,000 00
Highway Loan, due in 1924	1,200,000 00
Highway Loan, due in 1927	500,000 00
Special Highway Loan	160,000 00
	$17,020,000 00

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THE SINKING FUNDS.

FOR THE REDEMPTION OF THE CITY DEBT.

AN ORDINANCE ESTABLISHING A BOARD OF COMMISSIONERS OF SINKING FUNDS.

CHAPTER LII.

(As amended by Chapter CCCXL., CCCLXXVIII., and CDXLIII.)

SECTION 1. The Board of Commissioners of Sinking Funds shall consist of the Mayor, the City Treasurer, the City Auditor, the Chairman of the Committee on Finance, and three persons to be elected by the City Council by concurrent vote of the two branches thereof; and all the members shall hold their respective offices until their successors are elected and qualified to act. One member of said board shall be elected annually, on the first Monday in January, for the term of three years. In case of a vacancy in said board, by death, resignation or otherwise, of either of the persons elected thereto, such vacancy shall be filled by the City Council, by concurrent vote of the two branches, and the person so elected shall hold his office for the remainder of the unexpired term. A majority of all the members of the said board shall be necessary to constitute a quorum thereof.

SEC. 2. Said board shall have the control and management of all sinking funds established for the redemption of any bonds or notes heretofore issued by the city or which may hereafter be issued by the city, or for the redemption of any bonds now held or which may hereafter be held by the city, and shall promptly invest all moneys received by them from any sources in bonds or notes of the city, or in bonds of the State of Rhode Island, or of the United States, giving preference to the bonds and notes of this city, and shall, immediately upon the purchase thereof, cancel all bonds of the city purchased by them, together with the coupons attached thereto, provided the same may be lawfully cancelled, in such manner as to effectually prevent their reissue or negotiation, and all notes and other bonds which shall be purchased by said board shall be endorsed or made payable to said board in such manner as to prevent the sale, negotiation, or payment thereof, except by order of said board.

SEC. 3. No investment or change of investment or securities shall be made except by a vote of a majority of the board, and the members of the board shall, by their signature upon the record, express their approval or disapproval of such a vote.

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SEC. 4. The treasurer of said board shall have the custody of all the securities of said board and shall keep said securities in one or more of the compartments of the safe in the vault in the office of the City Treasurer, and all the records and books of account of the board shall be deposited in said vault.

SEC. 5. Said board shall keep a full record of all the meetings and proceedings, and shall make a report in writing to the City Council on the first Mondays in January, April, July, and October, in each year, showing the change, if any, in the several sinking funds, and shall also, on the first Monday in January, in each year, make a detailed report of the condition and manner of the investment thereof.

SEC. 6. The records and books of account of said board shall be open to the inspection of any member of the City Council.

SEC. 7. The Mayor shall be chairman, the City Auditor secretary, and the City Treasurer, treasurer of said board, and the accounts shall be kept by the City Treasurer.

SEC. 8. In accordance with the provisions of an act of the General Assembly, passed at the January session, in the year eighteen hundred and fifty-one, entitled "An act authorizing the City of Providence to loan its credit in aid of the Providence and Plainfield railroad, and for its extension," the City Treasurer is hereby directed from time to time and immediately on receipt thereof, to pay to the Commissioners of Sinking Funds all moneys and balances of interest received by the city and pledged and appropriated for a sinking fund by said act.

SEC. 9. In accordance with the provisions of an act of the General Assembly, passed at the May session, in the year eighteen hundred and fifty-five, entitled "An act authorizing the City of Providence to issue bonds and establish a sinking fund," the City Treasurer is hereby directed to pay, on the first day of September in each and every year, and until the maturity of all bonds issued under said act, to the Commissioners of Sinking Funds, the sum of ten thousand dollars for a sinking fund, to be pledged and appropriated as provided by said act.

SEC. 10. In accordance with the provisions of chapter four hundred and forty-one of the statutes, entitled "An act authorizing the City of Providence to raise money for the existing civil war," the City Treasurer is hereby directed on the first day of January, in each and every year, until the maturity of all bonds issued under said chapter to pay to the Commissioners of Sinking Funds the sum of five thousand dollars for a sinking fund to be pledged and appropriated as provided by said act.

SEC. 11. All sums of money remaining in the hands of the Commissioners of Sinking Funds shall, after applying said sinking fund as by law required, and all excess of receipts from water rents over and above the necessary expenses of managing the water works, including interest on loans and bonds issued on account of the water works, shall be applied to a sinking fund for the redemption of water bonds as they become due.

SEC. 12. The Commissioners of Sinking Funds are hereby authorized to hold in trust for the Commissioners of the North Burial Ground, according to the terms and provisions of chapter 781 of the public laws, passed by the General Assembly at the January session, A. D. 1889, stocks or bonds of any corporation that may be bequeathed or donated to the perpetual care funds of the North Burial Ground.

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SINKING FUNDS.

The following is an exhibit of the condition of the several sinking funds held by the Commissioners on the thirtieth day of September, 1897, for the redemption of the bonds and notes of the City of Providence, viz.:

SINKING FUND OF 1899.

City Hall and Sewer Loan.

Holding City of Providence bonds as follows:

One 4½ per cent. registered bond, due June 1, 1899	$1,000 00
Three 5 per cent. registered bonds, due July 1, 1899	121,000 00
Two 5 per cent. registered bonds, due July 1, 1900, (Pub. Imp.)	30,000 00
Twenty 3½ per cent. registered bonds, due May 1, 1947	400,000 00
Cash	15,461 05
	$567,461 05

Increase, $41,827.63.

SINKING FUND OF 1899.

Public Improvement Loan.

Holding City of Providence bonds and certificates as follows:

Four 5 per cent. registered bonds, due July 1, 1899	$296,000 00
Two 5 per cent. registered bonds, due July 1, 1900, (Pub. Imp.)	24,000 00
One 4 per cent. note, payable on demand	40,000 00
Cash	21,359 42
	$381,359 42

Increase, $31,377.47.

SINKING FUND OF 1900.

Public Improvement Loan.

Holding City of Providence bonds and certificates as follows:

Three 5 per cent. registered bonds, due July 1, 1900, (Pub. Imp.)	$87,000 00
One 4 per cent. note, payable on demand	25,000 00
Cash	2,913 08
	$114,913 08

Increase, $9,823.26.

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SINKING FUND OF 1900.

Water Loan.

Holding City of Providence bonds as follows:

One 5 per cent. registered bond, due July 1, 1899	$33,000 00
One 5 per cent. registered bond, due July 1, 1900 (Public Improvement)	5,000 00
Nineteen 6 per cent. registered bonds, due July 1, 1900 (Water)	32,000 00
Thirteen 5 per cent, registered bonds, due July 1, 1900 (Water)	30,000 00
Twenty-five 4 per cent. registered bonds, due April 1, 1927 (Highways)	500,000 00
Eighteen 3½ per cent. registered bonds, due May 1, 1947	274,000 00
Cash	*113,467 16
	$987,467 16

Increase, $38,889.76.

* Includes $87,074.95 excess of water rents for year ending September 30. 1897.

SINKING FUND OF 1906.

Water Loan.

Holding City of Providence notes as follows:

Nine 4 per cent. notes, payable on demand	$235,000 00
Cash	9,688 48
	$244,688 48

Increase, $11,909.80.

SINKING FUND OF 1916.

Water Loan.

Holding City of Providence bonds as follows:

Three 3½ per cent. registered bonds, due September 1, 1916	$15,000 00
Four 3½ per cent. registered bonds, due May 1, 1937	80,000 00
Cash	997 97
	$95,997 97

Increase, $3,734.02.

SINKING FUND OF 1923.

Water Loan.

Cash	$58,274 01

Increase, $2,636.20.

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SINKING FUND OF 1926.

Water Loan.

Cash	$30,178 01

Increase, $909.31.

SINKING FUND OF 1927.

Water Loan.

Cash	$36,001 07

Increase, $36,001.07.

SINKING FUND OF 1909.

Davis Estate Loan.

Cash	$21,779 79

Increase, $3,898.30.

SINKING FUND OF 1911.

School Loan.

Holding City of Providence bonds and certificates as follows:

Four 3½ per cent. registered bonds, due May 1, 1937	$80,000 00
One 4 per cent. note payable on demand	14,000 00
Cash	2,199 26
	$96,199 26

Increase, $17,017.76.

SINKING FUND OF 1925.

School Loan.

Holding City of Providence note as follows:

One 4 per cent. note, payable on demand	$50,000 00
Cash	6,225 06
	$56,225 06

Increase, $7,354.72.

SINKING FUND OF 1927.

School Loan.

Holding City of Providence bonds as follows:

Three 3½ per cent. registered bonds, due May 1, 1937	$60,000 00
Cash	9,919 32
	$69,919 32

Increase, $69,919.32.

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SINGING FUND OF 1921.

Sewer Loan.

Holding City of Providence bonds and certificates as follows:

Six 4 per cent. registered bonds, due April 1. 1927 (Sewer).....	$120,000 00
One 4 per cent. note, payable on demand.....	50,000 00
Cash.....	4,707 32
	$174,707 32

Increase, $13,533.64.

SINKING FUND OF 1922.

Sewer Loan.

Holding City of Providence bonds as follows:

Five 3½ per cent. registered bonds, due May 1, 1937.....	$100,000 00
Cash.....	7,942 76
	$107,942 76

Increase, $14,302.94.

SINKING FUND OF 1923.

Sewer Loan.

Holding City of Providence bonds as follows:

Three 3½ per cent. registered bonds, due May 1, 1937.....	$60,000 00
Cash.....	16,608 63
	$76,608 63

Increase, $12,993.75.

SINKING FUND OF 1925.

Sewer Loan.

Holding City of Providence bonds as follows:

Seven 4 per cent. registered bonds, due April 1, 1927, (Sewer)..	$130,000 00
Cash.....	3,177 23
	$133,177 23

Increase, $197.09.

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SINKING FUND OF 1926.

Sewer Loan.

Holding City of Providence bonds as follows:

Four 3½ per cent. registered bonds, due May 1, 1937	$80,000 00
Cash	646 28
	$80,646 28

Increase, $12,082.20.

SINKING FUND OF 1927.

Sewer Loan.

Cash	$46,003 89

Increase, $46,003.89.

SINKING FUND OF 1922.

Park Loan.

Holding City of Providence bonds as follows:

Five 3½ per cent. registered bonds, due May 1, 1937	$100,000 00
Cash	8,400 28
	$108,400 28

Increase, $14,375.95.

SINKING FUND OF 1924.

Highway Loan.

Holding City of Providence bonds and certificates as follows:

Four 3½ per cent. registered bonds, due May 1, 1937	$80,000 00
Two 4 per cent. notes, payable on demand	152,692 95
Cash	241 98
	$232,934 93

Increase, $34,757.56.

SINKING FUND OF 1927.

Highway Loan.

Cash	$77,989 76

Increase, $77,989.76.

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RECAPITULATION.

Sinking Fund, city hall and sewer loan, due in 1899	$567,461 05
Sinking Fund, public improvement loan, due in 1899	381,359 42
Sinking Fund, public improvement loan, due in 1900	114,913 08
Sinking Fund, water loan, due in 1900	*987,467 16
Sinking Fund, water loan, due in 1906	244,688 48
Sinking Fund, water loan, due in 1916	95,997 97
Sinking Fund, water loan, due in 1923	58,274 01
Sinking Fund, water loan, due in 1926	30,178 01
Sinking Fund, water loan, due in 1927	36,001 07
Sinking Fund, Davis Estate loan, due in 1909	21,779 79
Sinking Fund, school loan, due in 1911	96,199 26
Sinking Fund, school loan, due in 1925	56,225 06
Sinking Fund, school loan, due in 1927	69,919 32
Sinking Fund, sewer loan, due in 1921	174,707 32
Sinking Fund, sewer loan, due in 1922	107,942 76
Sinking Fund, sewer loan, due in 1923	76,608 63
Sinking Fund, sewer loan, due in 1925	133,177 23
Sinking Fund, sewer loan, due in 1926	80,646 28
Sinking Fund, sewer loan, due in 1927	46,003 89
Sinking Fund, park loan, due in 1922	108,400 28
Sinking Fund, highway loan, due in 1924	232,934 93
Sinking Fund, highway loan, due in 1927	77,989 76
	$3,798,874 76
Amount of sinking funds September 30, 1896	3,297,339 36
Increase in the sinking funds	$501,535 40

* Includes $87,074.95 excess of water rents for year ending September 30, 1897.

SENATOR HENRY B. ANTHONY PRIZE FUND.

(See City Auditor's annual report for year ending September 30, 1886, page 18, and Chapter CIII. of the city ordinances, approved December 8, 1887).

Held by the Commissioners in trust.

Holding City of Providence note as follows:

One 4 per cent. note payable on demand	$3,000 00

NORTH BURIAL GROUND PERPETUAL CARE FUND.

Held by the commissioners in trust.

Holding City of Providence notes, etc., as follows:

Three 4 per cent. notes, payable on demand	$112,000 00
Ten shares Boston and Providence Railroad Co.	1,000 00
Eight shares Blackstone Canal National Bank	200 00
Five shares Providence and Worcester Railroad Co.	500 00
Cash	3,891 83
	$117,591 83

Increase, $9,706.25.

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TRUST FUNDS.

NORTH BURIAL GROUND PERPETUAL CARE FUNDS.

In Charge of the Commissioners of Sinking Funds, as Trustees, under an act of the General Assembly passed April 25, 1889.

Name of Fund.	Date Accepted.	Amount of Fund.
Total previously reported, see 50th Annual Report		$90,310 16
Stephen F. Blanding	October 16, 1896	70 00
Anna E. Brown	October 16, 1896	90 00
Ida McCausland	October 16, 1896	90 00
Alfred E. Wood	October 16, 1896	144 00
James and William S. Humphreys	October 30, 1896	200 00
John A. Howland	December 4, 1896	115 00
Elizabeth J. Barbour	December 4, 1896	85 00
Charlotte R. Bradford and William E. Hidden	December 4, 1896	90 00
George E. Crandall	December 4, 1896	90 00
George M. Gibson	December 4, 1896	165 00
Sarah J. Olney	December 4, 1896	144 00
Lizzie Young	December 4, 1896	142 00
Elizabeth Higginson Weeden	December 18, 1896	100 00
Ruth P. Gould	January 1, 1897	90 00
Mary E. Like	January 1, 1897	140 00
Nicholas Molter	February 2, 1897	275 00
William Scattergood & Sons	March 16, 1897	200 00
Elisha Gregory	April 20, 1897	90 00
Heirs of Mary P. Anthony	April 20, 1897	135 00
Sarah W. C. Bowen	April 20, 1897	80 00
Anna M. Gauch	April 20, 1897	90 00
Samuel McCoid	April 20, 1897	90 00
Gertrude D. Taft	April 20, 1897	150 00
John A. Owen	May 7, 1897	150 00
Stephen O. Randall	May 7, 1897	100 00
James H. Sweetland	May 7, 1897	75 00
Frederick V. Kennon	May 21, 1897	75 00
Nellie F. and Theodore W. Potter	May 21, 1897	75 00
William Rea	May 21, 1897	110 00
Amount carried forward		$93,760 16

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Name of Fund.	Date Accepted.	Amount of Fund.
Amount brought forward		$93,760 16
Sarah L. Swan	May 21, 1897	75 00
Samuel O. Allen	June 8, 1897	105 00
Jane R. Peckham	June 8, 1897	90 00
Heirs of Henry A. Webb	June 8, 1897	165 00
Samuel Kay	July 2, 1897	75 00
Freelove Fenner	July 2, 1897	35 00
Eva Belle Clemence	July 13, 1897	35 00
George H. Bates	July 13, 1897	120 00
Sarah Thurber	July 13, 1897	125 00
Galen Pierce	July 13, 1897	165 00
John J. A. R. and Elizabeth J. Whipple	July 13, 1897	100 00
Thomas J. Huddleston	July 13, 1897	125 00
James M. Britton	August 20, 1897	75 00
William Earle	August 20, 1897	400 00
Joseph Tillinghast	August 20, 1897	100 00
Lyman E. Henry	August 20, 1897	61 00
Philip A. Munroe	August 20, 1897	200 00
Heirs of William Temple	August 20, 1897	90 00
Oren D. M. Underwood	August 20, 1897	125 00
Ashbell and Beriah Wall	August 20, 1897	175 00
Mary L. Allen	September 8, 1897	75 00
John W. Davis	September 8, 1897	80 00
Abiel L. Leonard	September 8, 1897	135 00
Charles E. Medbury	September 8, 1897	150 00
William H. Smith and George F. Johnson	September 8, 1897	100 00
Edward Stanley	September 8, 1897	142 00
John J. Tillinghast	September 8, 1897	150 00
Samuel Walton	September 8, 1897	75 00
Albert L. Calder, Trustee	September 8, 1897	90 00
Total		$97,198 16

In addition to the foregoing perpetual care funds held by the Commissioners of Sinking Funds, the sum of $2,085.00 has been received by them from the Commissioners of the North Burial Ground, for the care of single graves.

Total amount of perpetual care funds for the North Burial Ground, exclusive of income $99,283 16

For an account of the receipts and expenditures of these funds, see commissioners' annual report to the City Council.

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NORTH BURIAL GROUND SINKING FUND.

An extract from chapter CXCVII of the ordinances, as amended September 24, 1889, creating a sinking fund for the payment of the indebtedness of the North Burial Ground:

SEC. 3. All rents collected from said burial grounds, all fees or rewards of any kind derived therefrom, paid to the Superintendent of said burial grounds, or to any other person, and all income of whatever description derived from said burial grounds, shall be paid to the City Treasurer of the City of Providence, and together with the sums received from the sale of lots in said burial grounds, less five cents per square foot for every square foot of land sold in said burial grounds, shall constitute the North Burial Ground Improvement Fund. Said five cents per square foot not going to constitute the said North Burial Ground Improvement Fund is hereby appropriated as a sinking fund for the extinguishment of any indebtedness of the city already contracted, or which may hereafter be contracted, principal or interest, on account of the purchase of land for or in said burial grounds, unless otherwise ordered by the City Council.

The receipts on account of this fund began on the 30th of September, 1871, and the account to September 30, 1897, is as follows:

DR.

1880.		
July	Paid to the Commissioners of Sinking Funds on account of notes due Dec. 19, 1880	$29,000 00
Dec. 19.	Paid 6 per cent interest on $35,000 to date	21,000 00
	Paid notes issued Dec. 19, 1870, for Corliss land	35,000 00
		$85,000 00

CR.

1897.		
Sept. 30.	By amount of sinking fund	$2,585 74
	By amount received of the Commissioners	7,152 07
	By notes due Dec. 19, 1880, paid from sinking funds	35,000,00
	To balance due	40,262 19
		$85,000 00

North Burial Ground Land Account, as per balance sheet	$42,847 93
Amount of North Burial Ground Sinking Fund, September 30, 1897	2,585 74
Balance of indebtedness, September 30, 1897	$40,262 19

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DEXTER DONATION FUND.

Held under the 17th and 18th sections of the will of Ebenezer Knight Dexter.

City of Providence note, dated July 27, 1897, payable on demand, bearing interest at 4 per cent. per annum	$34,000 00
1 registered 4½ per cent. bond, due 1899	5,000 00
2 registered 4½ per cent. bonds, $1,000 each, due in 1899	2,000 00
Balance on deposit	36,231 38
	$77,231 38

TILLINGHAST DONATION FUND.

Extract from the will of Lydia Tillinghast, proved November 18, 1822.

"I give to the Town of Providence, two hundred dollars, to be by them applied, or under their direction, as a fund, the interest or income thereof to be used for the relief, comfort and support of the poor of any or all society and colors."

This fund is invested in four shares of the capital stock of the Union Bank, par value $50. Total fund, $200.00. Of this amount the sum of $177 has been received in liquidation, and is on deposit. (See page 2 of this report.)

GENERAL SUMMARY OF TRUST FUNDS.

North Burial Ground Perpetual Care Funds	$117,591 83
North Burial Ground Sinking Fund	2,585 74
Dexter Donation Fund	77,231 38
Tillinghast Donation Fund	177 00
Total	$197,585 95

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ESTIMATED RECEIPTS AND EXPENDITURES

For the Financial Year 1897-1898.

By the twenty-first section of chapter XIV. of the ordinances in relation to finances, it is ordained that the City Auditor "shall annually, on or before the third Monday in March, present to the City Council an estimate, in print, of the amount of money necessary to be raised during the financial year, under the respective heads of appropriations, together with an estimate of the receipts from all other sources than taxes. In order to aid the City Auditor in making such estimates, the Board of Aldermen having charge of the Dexter Asylum, the poor department, and bridges, the Overseer of the Poor, and the several standing committees of the City Council shall furnish annually, on or before the first Monday in March, such detailed estimates of the amounts required for their several departments as may be required of them by the City Auditor; and the heads of the several departments shall also furnish to the several standing committees of the City Council such estimates as may be required of them by such committees, and all estimates furnished to the City Auditor shall accompany his estimate presented to the City Council."

Such estimates were duly made and laid before the City Council, March 15, 1897, and were as follows:

EXPENDITURES.

Asylum Walls and Buildings	$2,000 00
Auditing Department	7,500 00
City Clerk's Department	9,000 00
City Council	22,000 00
City Hall	25,000 00
Clerk of Common Council and Clerk of Committees	3,200 00
Contingencies	25,000 00
Elections	18,000 00
Executive Department	8,000 00
Fire Department	350,000 00
Harbor	10,000 00
Health	45,000 00
Inspector of Buildings	4,300 00
Inspector of Milk	5,000 00
Inspector of Plumbing	5,400 00
Interest	95,000 00
Interest on City Hall and Sewer Loan due June 1, 1899	27,000 00
Interest on Davis Estate Loan due July 1, 1909	3,000 00
Interest on Highway Loan due May 1, 1924	48,000 00
Interest on Highway Loan due April 1, 1927	20,000 00
Interest on Park Loan due March 1, 1922	20,000 00
Interest on Public Improvement Loan due July 1, 1899	22,500 00
Interest on Public Improvement Loan due July 1, 1900	7,300 00
Amount carried forward	$782,200 00

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Amount brought forward		$782,200 00
Interest on School Loan due July 1, 1911		12,000 00
Interest on School Loan due May 1, 1925		12,000 00
Interest on School Loan due April 1, 1927		20,000 00
Interest on Sewer Loan due July 1, 1921		45,000 00
Interest on Sewer Loan due March 1, 1922		20,000 00
Interest on Sewer Loan due April 1, 1923		20,000 00
Interest on Sewer Loan due May 1, 1925		32,000 00
Interest on Sewer Loan due June 1, 1926		20,000 00
Interest on Sewer Loan due April 1, 1927		12,000 00
Interest on Water Loan due July 1, 1900		208,200 00
Interest on Water Loan due July 1, 1906		75,000 00
Interest on Water Loan due September 1, 1916		16,905 00
Interest on Water Loan due April 1, 1923		32,680 00
Interest on Water Loan due June 1, 1926		8,000 00
Interest on Water Loan due April 1, 1927		10,000 00
Law Department		13,500 00
License Commissioners		3,300 00
Municipal Court		7,000 00
Police Department		335,000 00
Printing		7,000 00
Providence Public Library		10,000 00
Public Buildings		75,000 00
Public Lights		280,000 00
Public Parks, General Account		7,000 00
Public Parks, Roger Williams Park		30,000 00
Public Schools		545,000 00
Public Works, Office		23,000 00
Public Works, City Engineer's Department		50,000 00
Public Works, Highways		200,000 00
Public Works, Water Works Maintenance		85,000 00
Public Works, Sewer Maintenance		65,000 00
Public Works, Bridges		25,000 00
Public Works, Sidewalks and Curbing		2,000 00
Record Commissioners		3,000 00
Recorder of Deeds		6,000 00
Relief Fund for Firemen		1,500 00
Relief Fund for Policemen		1,500 00
Rhode Island Hospital:		
Hospital service	$5,000 00	
Ambulance service	3,000 00	8,000 00
Sinking Fund, City Hall and Sewer Loan due June 1, 1899		19,000 00
Sinking Fund, Davis Estate Loan due July 1, 1909		3,000 00
Sinking Fund, Highway Loan due May 1, 1924		25,000 00
Sinking Fund, Highway Loan due April 1, 1927		10,000 00
Sinking Fund, Park Loan due March 1, 1922		10,000 00
Sinking Fund, Public Improvement Loan due July 1, 1899		13,550 00
Sinking Fund, Public Improvement Loan due July 1, 1900		4,500 00
Sinking Fund, School Loan due July 1, 1911		13,300 00
Amount carried forward		$3,207,135 00

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Amount brought forward		$3,207,135 00
Sinking Fund, School Loan due May 1, 1925		5,000 00
Sinking Fund, School Loan due April 1, 1927		10,000 00
Sinking Fund, Sewer Loan due July 1, 1921		25,000 00
Sinking Fund, Sewer Loan due March 1, 1922		10,000 00
Sinking Fund, Sewer Loan due April 1, 1923		10,000 00
Sinking Fund, Sewer Loan due May 1, 1925		15,000 00
Sinking Fund, Sewer Loan due June 1, 1926		10,000 00
Sinking Fund, Sewer Loan due April 1, 1927		6,000 00
Special Highway Loan		20,000 00
State Tax		303,385 91
Sealer of Weights and Measures		3,000 00
Support of the Poor		16,000 00
Tax Department		19,000 00
Treasury Department		25,000 00
		$3,684,520 91

RECEIPTS.

Fire Department		$200 00
Interest		39,000 00
Licenses (City)		14,000 00
Liquor Licenses, City's proportion		140,000 00
Miscellaneous		80,000 00
Police Department		12,000 00
Public Lights		200 00
Public Schools—Appropriated by the General Laws for the support of Public Schools:		
Dog licenses, poll taxes, etc	$20,000 00	
State of Rhode Island	27,000 00	
	$47,000 00	
Public Works, Bridges		100 00
Public Works, Water Maintenance	$18,000 00	
From water rents	475,000 00	
	$493,000 00	
Less excess over cost of maintenance and interest, held for sinking funds	58,000 00	
		435,000 00
Rents		8,000 00
Streets and Sewers		1,500 00
		$730,000 00

Estimated expenditures	$3,684,520 91
Estimated receipts, as above	730,000 00
Estimated amount to be raised by taxation for the fiscal year 1897-1898	$2,954,520 91

The City Council, by an ordinance approved May 21, 1897, ordered the assessment and collection of a tax on the real and personal estate of the city of $1.65 on each $100 of the value thereof, and in accordance therewith the Board of Assessors assessed the tax upon a valuation of $174,042,480.00 being a tax of $2,871,700.92.

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CITY TAX OF 1897.

The following is a copy of the ordinance providing for the assessment and collection of a tax upon the real and personal estate of the city for the year 1897, as passed by the City Council, and approved May 21, 1897:

CHAPTER 789.

AN ORDINANCE PROVIDING FOR THE ASSESSMENT AND COLLECTION OF A TAX UPON THE REAL AND PERSONAL ESTATE IN THE CITY OF PROVIDENCE.

[Approved May 21, 1897.]

IT IS ORDAINED BY THE CITY COUNCIL OF THE CITY OF PROVIDENCE AS FOLLOWS:

SECTION 1. The City Council hereby orders the assessment and collection of a tax on real and personal estate of one dollar and sixty-five cents on each one hundred dollars of the value thereof; the said assessment comprises the following: For ordinary expenses, eighty-seven cents on each one hundred dollars; for interest and sinking funds, sixty cents on each one hundred dollars; for the city's proportion of the State tax for the year 1897, which is hereby assumed, eighteen cents on each one hundred dollars.

SEC. 2. The Board of Assessors shall assess and apportion said tax on the inhabitants and ratable property in said city on the first day of July, A. D. 1897, according to law, and conformably to the rules and regulations of the City Council, and shall certify and deliver to the City Treasurer said assessment on the first day of September, A. D. 1897.

SEC. 3. Said tax shall be paid to and collected by the City Treasurer on and between the first and twenty-second days of October, A. D. 1897, inclusive.

SEC. 4. The City Treasurer shall, by advertisement in the public newspapers of the city, notify all persons assessed to pay their respective taxes at his office on and between the said first and twenty-second days of October, 1897, inclusive; said Treasurer shall attend daily during said period, Sundays excepted, at his office, from nine o'clock A. M. to five o'clock P. M., to receive said taxes, except Saturdays, when he shall attend from nine o'clock A. M. to three o'clock P. M.

SEC. 5. All persons who shall not pay their respective taxes during the period aforesaid shall pay respectively in addition thereto, a percentage thereon at the rate of eight per centum per annum, from the said first day of October.

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CITY TAXES.

Statement showing the *Assessors' Valuation* of the Real and Personal property of the City of Providence from 1868 to 1897, inclusive; also the rate per cent. and the amount of tax raised in each year:

Years.	Real Estate.	Per'l Estate.	Total.	Rate of Tax.	Amount of Tax.
1868	$49,107,900	$43,618,100	$92,726,000	$12 00 per $1,000	$1,112,712 00
1869	50,909,800	42,179,100	93,088,900	12 20 " "	1,135,684 58
1870	52,511,800	40,565,100	93,079,900	13 50 " "	1,256,538 15
1871	64,995,800	39,565,700	104,561,500	13 50 " "	1,411,580 25
1872	69,926,400	40,160,700	110,087,100	13 50 " "	1,486,175 85
1873	71,037,500	41,443,900	112,481,400	13 50 " "	1,518,498 90
1874	81,040,300	42,642,500	123,682,800	14 50 " "	1,793,400 60
1875	82,862,900	39,091,800	121,954,700	14 50 " "	1,768,343 15
1876	84,981,000	36,084,200	121,065,200	14 50 " "	1,755,445 40
1877	85,789,800	32,085,000	117,874,800	14 50 " "	1,709,184 60
1878	86,341,100	30,699,400	117,040,500	14 50 " "	1,697,087 25
1879	86,816,100	28,765,600	115,581,700	14 00 " "	1,618,143 80
1880	88,012,100	27,908,900	115,921,000	13 50 " "	1,564,933 50
1881	87,778,000	28,413,800	116,201,800	14 00 " "	1,626,825 20
1882	88,987,900	30,208,300	119,196,200	14 50 " "	1,728,314 90
1883	90,143,400	31,722,000	121,865,400	14 50 " "	1,767,048 30
1884	91,642,100	30,854,400	122,496,500	14 50 " "	1,776,199 25
1885	92,887,400	31,314,600	124,202,000	14 50 " "	1,800,929 00
1886	97,975,900	32,281,200	130,257,400	14 00 " "	1,823,603 60
1887	99,779,580	34,267,680	134,047,260	14 50 " "	1,943,685 27
1888	100,924,720	35,837,840	136,762,560	15 00 " "	2,051,438 40
1889	102,850,100	37,627,240	140,477,340	15 00 " "	2,107,160 10
1890	104,684,440	35,932,620	140,617,060	15 00 " "	2,109,255 90
1891	109,428,720	37,473,120	146,901,840	15 00 " "	2,203,527 60
1892	114,656,860	40,885,660	155,542,520	15 00 " "	2,333,137 80
1893	119,001,700	40,810,860	159,812,560	16 00 " "	2,557,000 96
1894	126,463,800	40,800,400	167,264,200	16 00 " "	2,676,227 20
1895	129,438,060	40,351,000	169,789,060	16 00 " "	2,716,624 96
1896	133,296,200	40,936,300	174,232,500	16 50 " "	2,874,836 25
1897	135,805,460	38,237,020	174,042,480	16 50 " "	2,871,700 92

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CONTRACTS.

The following statements of incompleted contracts at the close of the fiscal year, were presented to the City Auditor in compliance with chapter 14, section 10, of the ordinance in relation to finances:

DEPARTMENT OF PUBLIC WORKS.

WATER DEPARTMENT.—*Construction.*

NAME OF CONTRACTOR.	DATE OF CONTRACT.	WORK CONTRACTED FOR.	Estimated Amount of Contract.	Bills Approved on Account of Contract.	Estimated Amount to become due.
Fuller Iron Works	Dec. 17, 1896	Furnish iron castings	All required in 1897.	All furnished to Sept. 30, 1897.	All required to Dec. 31, 1897.

SEWER DEPARTMENT.—*Construction.*

Fuller Iron Works	Dec. 17, 1896	Furnish iron castings	All required in 1897.	All furnished to Sept. 30, 1897.	All required to Dec. 31, 1897.
Manchester & Hudson	Dec. 21, 1896	Furnish cement	All required in 1897.	All furnished to Sept. 30, 1897.	All required to Dec. 31, 1897.
Timothy F. Lyons	April 23, 1897	Build sewer in Bacon, North Main, and Randall streets	$5,253 61	$1,299 77	$3,953 84
Timothy F. Lyons	April 23, 1897	" " Atwells avenue	465 14	.....	465 14
Timothy F. Lyons	April 23, 1897	" " Chaffee street	864 51	.....	864 51
James J. Newman	July 10, 1897	" " Halsey street	537 24	.....	537 24
Frederick E. Shaw	July 16, 1897	" " Smith street	2,862 55	2,386 52	476 03
Timothy F. Lyons	July 16, 1897	" " Wayne street	1,418 55	.....	1,418 55

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SEWER DEPARTMENT.—*Improved Sewerage System.*

New England Steam Brick Co.	Feb. 26, 1896	Furnish bricks	$26,250 00	$18,249 00	$8,001 00
Fuller Iron Works	Dec. 17, 1896	Furnish iron castings	All required in 1897.	All furnished to Sept. 30, 1897.	All required to Dec. 31, 1897.
Manchester & Hudson	Dec. 21, 1896	Furnish cement	All required in 1897.	All furnished to Sept. 30, 1897.	All required to Dec. 31, 1897.

HIGHWAY DEPARTMENT.

New England Granite Works	March 20, 1897	Furnish granite blocks	$7,432 95	$7,374 81	$58 14
Narragansett Improvement Co.	Aug. 27, 1897	Laying asphalt pavement on approaches to new depot	14,606 40	6,865 28	7,741 12

BRIDGE DEPARTMENT.

Narragansett Improvement Co.	Oct. 30, 1895	Laying asphalt on Washington Row bridge	$2,676 19	$2,462 56	$213 63
John T. Tank	April 20, 1897	Build abutments and river walls for Weybosset bridge	114,573 00	25,606 66	88,966 34
David H. Andrews	May 15, 1897	Build superstructure for Weybosset bridge	27,629 70	.....	27,629 70
Edward W. Everson	Sept. 27, 1897	Build brick arches and level up for floor of Weybosset bridge	8,045 00	.....	8,045 00

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PUBLIC BUILDING DEPARTMENT.

NAME OF CONTRACTOR.	DATE OF CONTRACT.	WORK CONTRACTED FOR.	Estimated Amount of Contract.	Bills Approved on Account of Contract.	Estimated Amount to become due.
Lynch & Woodward.	Jan. 8, 1896....	Heating and ventilating new High School building, corner of Summer and Pond streets..... ..	$16,369 00	$13,095 20	$3,273 80
William Gilbane & Brother..	July 3, 1896....	Erecting a brick High School building, corner of Alumni avenue and Hope street.....	120,080 00	64,220 00	55,860 00
Lynch & Woodward.....	Dec. 4, 1896....	Heating and ventilating Broad street Grammar School, junction Broad and Eddy streets.....	9,980 00	7,159 40	2,820 60
The Owen McAuliffe Co.....	Dec. 30, 1896...	Plumbing at the East Side High School, corner Alumni avenue and Hope street..... ...	8,347 00	3,200 00	5,147 00
Huey Brothers.....	Jan. 4, 1897....	Heating and ventilating East Side High School, corner Alumni avenue and Hope street.....	12,627 00	3,864 00	8,763 00
Columbia Electric Co.....	Jan. 5, 1887....	Electrical apparatus at East Side High School, corner Alumni avenue and Hope street.....	2,800 00	.....	2,800 00
Columbia Electric Co.....	Jan. 5, 1897 ...	Electrical apparatus at the West Side High School southeast corner Summer and Pond streets.....	3,500 00	2,100 00	1,400 00
Columbia Electric Co.....	Jan. 5, 1897....	Electrical apparatus at the Broad street Grammar School, junction of Broad and Eddy streets..... .	1,975 00	1,080 00	895 00
Blodgett Brothers & Co.....	March 20, 1897.	Blodgett electric time service and telephone system, West Side High School, southeast corner of Summer and Pond streets.....	1,280 00	712 80	567 20
Drake, Payson & Whittier Electric Co.....	April 1, 1897....	Electric clocks, dials, bells, etc., Broad street Grammar School building, junction Broad and Eddy streets.....	610 00	.....	610 00
Rhode Island Electric Protective Company.....	May 10, 1897...	Electric time service, call bells, etc., East Side High School, corner Alumni avenue and Hope street.....	1,235 00	.....	1,235 00
Thomas H. Early & Co.....	July 1, 1897....	Removing ashes and rubbish from the Public Buildings...	1,800 00	.....	1,800 00

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Thomas H. Early & Co.	July 1, 1897	Removing night soil from Public Buildings	600 00	.....	600 00
Hartwell, Williams & Kingston	July 14, 1897	Erecting a brick 6-room school building, East avenue, Brenton avenue and Montague street	20,500 00	7,598 00	12,902 00
Hartwell, Williams & Kingston	July 14, 1897	Erecting a brick 6-room school building, corner Chalkstone and Mount Pleasant avenues	20,500 00	3,540 00	16,960 00
George A. Avery	July 14, 1897	Gas and electric combination fixtures, etc., at the West Side High School, southeast corner Summer and Pond streets	1,777 55	.....	1,777 55

Fire Department.

The Gamewell Fire Alarm Telegraph Co.	June 4, 1897	For Fire Alarm Central Office, etc.	$23,000 00	.....	$23,000 00

Health Department.

A. H. & J. Barney	April 25, 1894	For removal of swill, etc., to May 1, 1899	At 15½ cents per annum for each inhabitant.	To October 1, 1897.	

Lamp Department.

Narragansett Electric Lighting Co.	Oct. 29, 1892	1,800 electric lights to June 15, 1902	35 cents per night for each light burned.	To October 1, 1897.	
Webster Oil and Gasoline Co.	Dec. 17, 1896	Care, control and lighting naphtha lamps, for three years.	$22.50 per lamp per annum.	"	

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MISCELLANEOUS.

Snow & Farnham	Jan. 27, 1897	City Printing, for one year		All furnished to Sept. 30, 1897.	All required to Dec. 31, 1897.
Akerman Co.	Jan. 27, 1897	City Binding, for three years		"	"
Providence Journal Co.	Jan. 27, 1897	City Advertising, for one year		"	"
The News Co.	Jan. 27, 1897	City Advertising, for one year		"	"
Franklin Bros.	March 27, 1897	Furnish carriages, etc., for one year	50 cts. to $1.25 per hour.		

PRINTING.

Harry Gregory	March 1, 1894	Index of Births, Marriages and Deaths (20 copies)	3 cts. per page		

PUBLIC SCHOOLS.

Rhode Island School of Design	July 14, 1888	Instruction of pupils in drawing	$500 per annum.		

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INVENTORY OF PERSONAL PROPERTY.

FIRE DEPARTMENT.

Under control of the Board of Fire Commissioners.

Apparatus and Hose.

3 chemical engines	$2,100 00
1 combination chemical engine and hose wagon	1,500 00
22 exercise wagons	2,325 00
20 hose wagons	6,500 00
2 hose reels	25 00
4 hose sleds	75 00
9 hook and ladder trucks	16,000 00
7 light wagons	625 00
9 steam fire engines	27,300 00
3 sleighs	50 00
1 water tower	4,000 00
32,930 feet 2½-inch hose (fabric)	18,011 00
850 " 2½- " (rubber)	334 00
1,350 " 3½- " (fabric)	675 00
1,000 " ¾- " (chemical)	200 00
Total	$79,720 00

Equipments.

77 axes	$154 00
8 cellar pipes	140 00
103 cotton hooks	15 45
34 crow bars	34 00
8 extinguishers, 5 gallons each	40 00
59 extinguishers, 3 "	1,180 00
26 forks	19 50
35 hydrant heads	5,250 00
128 hose belts	128 00
243 hose spanners	121 50
15 hose jackets	15 00
128 ladder straps	32 00
31 life lines	62 00
Amount carried forward	$7,191 45

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Amount brought forward	$7,191 45
7 life nets	350 00
142 lanterns	213 00
39 nozzles, controlling	390 00
65 nozzles, plain	130 00
37 play pipes, rubber	185 00
44 play pipes, brass	144 00
5 pipe holders	50 00
43 pails, fire	10 75
17 plaster-hooks	21 25
36 reducers	36 00
15 siamese connections	300 00
27 smoke protectors	108 00
2 smoke helmets	200 00
9 wire cutters	90 00
Total	$9,419 45

FURNITURE AND BEDDING.

9 bureaus	$90 00
3 book-cases	30 00
243 bedsteads	1,215 00
240 bed springs	1,200 00
226 bolsters	452 00
246 bed blankets	738 00
244 comfortables	366 00
233 counterpanes	349 50
580 curtains	290 00
60 clocks	420 00
2 chiffoniers	50 00
34 coal hods	8 50
720 chairs	720 00
226 cuspidors	113 00
25 carpets	375 00
30 desks, roller top	360 00
22 desks, plain	66 00
244 mattresses	1,932 00
3 mantel beds	175 00
72 mirrors	216 00
172 mats	129 00
250 pillows	312 50
1000 sheets	350 00
589 slips, bolster	47 12
644 slips, pillow	51 52
18 stoves	270 00
541 towels, long	81 15
659 towels, short	53 22
67 tables	335 00
27 water jars	54 00
Total	$10,869 51

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Horses, Harnesses and Stable Appurtenances.

47 barn brooms	$23 50
71 barn pails	10 65
156 blankets, horse	468 00
42 brushes, horse	73 00
89 brushes, mane	22 25
30 baskets	15 00
61 curry combs	12 20
39 feed measures	5 85
61 hay forks	15 25
88 horses	13,200 00
11 harnesses, single	220 00
36 " double	2,880 00
3 " triple	360 00
7 " lead	140 00
7 " extra	35 00
70 harness hangers	350 00
18 hoof hooks	4 50
14 hay cutters	28 00
16 manure forks	8 00
75 manure cans	112 50
55 shovels	27 50
34 scrapers	10 20
19 stall hooks	5 70
50 tons of hay	950 00
6 " straw	96 00
43 whips	32 25
Total	$19,105 35

Fire Alarm Telegraph.

18 alarm bells and strikers	$16,495 00
11 cable heads	165 00
34 combination box and lantern posts	1,190 00
34 fire alarm boxes, keyless doors	3,400 00
210 fire alarm boxes, plain locks	15,750 00
49 gongs, large	3,675 00
32 gongs, small	1,600 00
900 jars gravity battery	315 00
43 jars "Little Giant" battery	12 90
500 lbs. copper wire, on hand	70 00
3200 lbs. iron wire, on hand	136 00
50 miles covered copper wire	2,100 00
2000 ft. wire cable	475 00
100 miles of aerial line, including poles and fixtures	4,000 00
Repeating apparatus	3,250 00
1 telephone switchboard	75 00
24 extension bells	240 00
30 bridging bells	360 00
Tools	35 00
Underground cable	7,487 44
Total	$60,831 34

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Miscellaneous.

133 ash cans	$199 50
273 badges, regulation	819 00
319 " cap	31 90
338 " trumpet	33 80
338 brooms, house	98 00
94 " whisk	9 40
69 brushes, dust	31 05
65 " floor	81 25
29 " scrub	7 25
200 lbs. cotton waste	12 00
57 dust pans	25 65
1320 feet ¾-inch garden hose	132 00
54 boxes hoof ointment	27 00
135 lantern globes	20 25
21 landing pads	194 25
50 gross of matches	27 50
300 mops	47 00
182 mop sticks	54 60
52 monkey wrenches	52 00
96 pails	19 20
60 shovels	30 00
48 boxes salt	7 20
250 lbs. soap, castile	20 00
897 " hard	34 76
66 tubs soap, harness	19 80
700 lbs. soap, centennial	35 00
29 vises	58 00
20 wagon jacks	6 00
22 jack screws	110 00
2 lawn mowers	6 00
2 stationary force pumps	50 00
1 typewriter and desk	100 00
1 wheelbarrow	3 00
30 water guages	100 50
614 tons of coal	3,192 80
23 tons of cannel coal	230 00
Paint and painters' tools	250 00
Supplies and material in Supply Room at Station 1	600 00
Total	$6,775 66

Summary.

Apparatus and hose	$79,720 00
Equipments	9,419 45
Furniture and bedding	10,869 51
Horses, harnesses and stable appurtenances	19,105 35
Fire Alarm Telegraph	60,831 34
Miscellaneous	6,775 66
Total	$186,721 31

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FLAGS AND STAFFS.

(Under control of the Superintendent of Hacks.)

Flag staff on Prospect Terrace	$250 00
" " at junction of Smith and Jefferson streets	100 00
" " on Trinity square	300 00
" " at junction of Broad and Weybosset streets	75 00
" " on Burgess square	125 00
" " on Dexter Training Ground	50 00
12 flags and 7 bags	175 00
Total	$1,075 00

HEALTH DEPARTMENT.

(Under control of the Superintendent.)

At Narragansett Sale Stable.

Horse	$175 00
Buggy	30 00
Buggy	200 00
3 robes	23 00
2 blankets	3 00
2 whips	1 00
Sleigh	50 00
Harness	30 00
Total	$512 00

At Disinfecting Station.

Disinfecting tank	$500 00
Ambulance	250 00
1 stretcher	6 00
1 trunk	3 00
6 canvas bags	25 00
1 suit overalls and coat	1 50
1 harness	50 00
1 spring bed	3 00
4 sheets	8 00
2 thermometers	6 30
100 lbs. formalin	22 00
3 wrenches	8 00
2 pots	1 00
1 can	75
1 gallon wood alcohol	90
½ barrel sulphur	5 00
3 mattress	4 59
Blankets	5 00
6 comforters	5 88
1 pauline	9 00
Total	$914 92

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At Bacteriological Laboratory.

250 test tubes	$2 50
1 numbering glass	1 00
370 double Petri dishes	74 00
25 double Soyka dishes	3 12
2 double Babes dishes	55
1 disinfecting oven	3 45
3 dozen pipettes	8 00
3 measuring glasses	4 49
Filler	2 75
Counting plate	4 00
4 Bunsen burners	4 00
8 flasks	1 44
2 pails	1 00
2 thermometers	2 15
3 double dishes	79
1 gas regulator (Moitessier)	7 50
1 thermostat	6 00
Refrigerator	16 80
Wire cages	5 00
8 pipette boxes	4 00
Funnel	2 75
Tumblers	80
2 magnifiers	1 15
Ring stand	1 25
2 incubators	40 00
4 test tube boxes	3 00
Air guage	17 00
Anemometer	25 00
Total	$243 49

At Small-Pox Hospital.

8 iron bedsteads	$25 00
6 wire spring beds	26 00
1 wooden bedstead	2 00
8 mattresses	80 00
9 pillows	10 00
2 bolsters	6 00
1 chest bed clothing	25 00
2 screens	4 00
3 rockers	5 00
8 chairs	5 00
4 tables	6 00
Wringer	3 00
2 bureaus	6 00
Platform rocker	5 00
Cradle	3 00
Amount carried forward	$211 00

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Amount brought forward		$211 00
2 ladders		3 00
1 sick chair		2 00
5 lamps		3 00
1 refrigerator		10 00
1 stove		15 00
Stove furniture		15 00
Crockery		20 00
5 tubs		2 00
1 wash boiler and pail		2 00
Thermometer		2 00
Hypodermic syringe		2 00
Chamber set		40 00
2 plush chairs		15 00
Extension table		6 00
2 clocks		5 00
2 stands		3 00
Total		$356 00
Total	$2,026 41	

INSPECTOR OF MILK.

(Under control of the Inspector of Milk.)

In possession of the Inspector at Central Police Station Building, 161 Fountain street.

Chemicals (on hand Sept. 30, 1897)	$103 00
Books	499 30
Chemical apparatus:	
19 platinum milk dishes	142 50
4 " sugar "	21 15
2 " water shells	18 45
1 " dish (shallow)	5 20
1 " "	21 50
1 " crucible (Gooch)	15 00
1 " " and cover	18 00
1 " filter cone	5 70
7 " triangles	21 00
Platinum wire and foil	13 50
Platinum (scrap)	14 25
1 blow pipe case	50 00
1 silver dish	5 00
3 nickel capsules	6 50
2 copper water baths	25 00
1 air bath	52 00
1 Babcock milk tester	14 00
Spectroscope	15 00
Amount carried forward	$1,066 05

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Amount brought forward	$1,066 05
Analytical balances and weights	106 75
1 pair of metric scales	7 20
2 microscopes and accessories	212 25
Miscellaneous apparatus	369 81
Fixtures and office furniture:	
8 chairs	30 00
1 letter press	10 00
1 safe	75 00
1 ice box	18 00
Desk furniture	5 00
Numbering stamp	8 50
Two desks	110 00
One typewriter and desk	130 00
One book case	30 00
Total	$2,178 56

INSPECTOR OF PLUMBING.

(Under control of the Inspector of Plumbing.)

1 bay horse	$150 00
1 buggy	175 00
1 harness	25 00
2 street blankets	8 00
1 stable blanket	3 50
2 robes	16 00
1 mat	2 00
1 hitching weight	1 00
1 whip	1 00
Total	$381 50

NORTH BURIAL GROUND.

(Under control of the Commissioners of North Burial Ground.)

7 horses: Rex, $125; Kittie, $125; Nellie, $100; Charlie, $100; Mabel, $100; Billy, $40; Lucy, $25	615 00
1 watering cart, $50; 4 one-horse carts, $60; 1 one-horse cart, $25	135 00
1 one-horse gear, $15; 1 hand-watering cart, $3	18 00
1 phaeton buggy, $50; 1 open buggy, $20	70 00
1 carryall, $45; 1 tomb wagon, $40	85 00
1 lumber wagon, $15; 1 hand truck, $1	16 00
1 horse roller, $8; 3 hand rollers, $15	23 00
1 plow, $1.50; 2 harrows, $5	6 50
10 wheelbarrows, $10; 8 lawn mowers, $32	42 00
1 double harness, $20; 1 light harness, $6	26 00
1 express harness, $8; 6 cart harnesses, $50	58 00
Amount carried forward	$1,094 50

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Amount brought forward	$1,094 50
29 shovels and spades, $20; 9 wooden rakes, 90 cents	20 90
13 iron rakes, $4; 8 steel rakes, $2.50	6 50
12 scythes and 4 snaths, $9; 1 hay cutter, $3	12 00
1 grindstone, $4; 1 boom derrick, $15	19 00
1 three-leg derrick, $3; 1 breast derrick, $15	18 00
6 horse blankets, $6; 5 horse covers, $5	11 00
Whiffletree and eveners, $5; ropes, hooks and blocks, $2	7 00
5 iron bars and 1 tamper, $3.60; 8 picks, $4	7 60
25 forks, $7.50; 2 lever jacks, $6	13 50
50 feet steel tape, $5; 1 chest carpenters' tools, $3	8 00
300 feet rubber hose and reel, $15; flower pots, $50	65 00
Brushes, brooms and pails, $3; 8 two-bushel baskets, $4	7 00
Office furniture, $50; 2 stoves, $4	54 00
Hand pump and hose, $30; 2 ladders and 1 step-ladder, $3	33 00
One thousand bricks, $8.25; cast iron kettle, $1	9 25
Dump cars and track, $150; 22 tons coal, $114.40	264 40
2,000 feet covering stone, $200; 14 slate vaults, $161	361 00
15 tons hay, $180; bedding, $10	190 00
Manure, $60; 3 paving pounders, $1.50	61 50
Mattocks, $1; 4 robes, $12	13 00
2 trimmers and 1 post hole shovel, $1; 8 barrels cement, $7.20	8 20
10 barrels slacked lime, $5; 20 hoes, $4	9 00
Grass hooks and shears, $6.35; 2 hammers, $2	8 35
1 bull rake, 50 cents; stone tools, $10	10 50
Lumber, $30; water pails and benches, $25	55 00
Total	$2,367 20

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POLICE DEPARTMENT.—*Under control of the Chief of Police.*

STATIONS.	Ash Cans.	Badges.	Bedsteads.	Bells.	Belts.	Bible.	Blankets.	Bolsters.	Book Cases.	Brooms.	Brushes, floor.	Bureaus.	Carpets.	Carpet Mats.	Cartridges, pistol, boxes.	Chairs.	Clocks.	Clothes Presses.	Clubs and Belts for parade.	Clubs, locust and white.	Coal, tons.	Coal Hods.	Comforters.	Counterpanes.	Cups, drinking.	Cuspidors.	Dead Cloths.	Desks.	Barrels Oil.
Headquarters, City Hall	....	46	....	....	6	..	....	....	1	4	..	..	....	....	20	....	....	....	3	25	....	..	....	....	16	..	..	....	..
No. 1, Fountain street	28	48	36	1	..	..	35	....	....	6	2	2	4	33	....	80	7	25	46	61	10	1	36	36	....	48	2	6	1
No. 2, Chalkstone avenue	9	41	35	1	..	1	35	15	1	....	..	1	2	....	....	75	3	23	35	32	20	2	31	34	....	35	..	5	..
No. 3, Wickenden street	15	38	32	1	..	1	32	..	1	1	1	2	7	30	2	83	2	22	38	54	40	2	28	32	3	24	..	5	..
No. 4, Knight street	10	36	39	5	..	1	32	....	1	2	2	1	5	36	....	76	2	30	32	44	3	1	30	30	1	39	..	3	..
No. 5, Plain street	12	37	30	1	..	1	31	....	1	2	1	1	3	28	2	60	4	18	33	40	10	1	35	38	4	30	..	3	..
No. 6, Chaffee street	10	32	26	1	1	1	26	..	1	2	..	2	4	16	2	66	4	28	27	28	5	1	25	25	6	20	..	4	..
No. 7, Burnett street	8	29	19	1	..	..	19	....	...	1	1	..	....	18	....	22	2	5	26	29	....	..	19	19	....	22	..	2	..
At Rhode Island Hospital	....	....	....	....	..	..	....	....	....	....	..	..	....	....	...	....	....	....	....	....	....	..	....	...	....	....	..	....	..
Totals	92	307	217	11	7	5	210	15	6	18	7	9	25	161	26	462	24	151	240	313	88	8	204	214	30	218	2	28	1

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POLICE DEPARTMENT.—*Under control of the Chief of Police.*

STATIONS.	Disinfectant, boxes.	Dusters, feather.	Hammers, sledge.	Handcuffs.	Hose and Pipe, feet.	Insane Safety Belt.	Insect Powder, Cans.	Iron Bars.	Lanterns.	Lantern Globes.	Lawn Mowers.	Mattresses, hair.	Mattresses, palm.	Mats.	Mirrors.	Mops.	National Colors.	Pails.	Pillows.	Pillow Slips.	Pistols.	Property Bags.	Putz Pomade, boxes.	Rope, feet.	Safes	Settees.	Sheets.	Shoe Blacking, boxes.
Headquarters	25	3	....	....	....	....	1	....	....	48	....	....	....	....	....	12	....	....	....	....	20	12	4	480	....	....	30	12
No. 1	....	2	2	15	75	1	....	24	52	....	....	37	....	7	6	2	2	5	37	55	48	31	....	3175	1	19	65	....
No. 2	....	....	....	3	50	....	....	....	5	....	....	35	....	5	8	..	1	3	35	60	40	....	....	437	....	3	95	....
No. 3	12	2	....	2	100	1	....	3	11	12	1	32	....	5	23	1	....	2	32	64	38	....	....	378	....	....	96	4
No. 4	10	2	....	4	50	1	1	....	11	..	....	32	21	5	7	2	1	2	32	64	36	10	....	377	1	....	96	....
No. 5	4	1	....	2	100	1	....	....	10	4	1	31	27	3	10	1	1	3	30	100	36	14	....	205	....	....	110	2
No. 6	....	2	....	2	100	1	....	....	6	6	....	26	....	21	12	2	1	2	36	64	32	12	....	250	....	....	68	1
No. 7	3	1	....	2	50	1	....	....	8	....	....	19	....	3	3	1	....	1	19	41	29	4	....	198	....	1	58	....
R. I. Hospital	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Totals	54	13	2	30	525	6	2	27	103	70	2	212	48	49	69	21	6	18	221	448	279	83	4	5500	2	23	618	19

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POLICE DEPARTMENT.—*Under control of the Chief of Police.*

STATIONS.	Shovels.	Soap, toilet, boxes.	Soap, Dirt Killer, boxes.	Step Ladders.	Stoves and pipe.	Tables.	Thermometers.	Towels.	Umbrella Stands.	Waste Baskets.	Water Jars.	Watering Pots.	Waterproof Dressing, boxes.	Wheelbarrows.	Signal System. Batteries, sets.	Signal System. Desks.	Signal System. Indicators.	Signal System. Patrol Boxes.	Signal System. Tools, sets.	Stables. Ambulances.	Stables. Baskets.	Stables. Blankets for Ambulance.	Stables. Bridles.	Stables. Brooms, barn.	Stables. Brushes.	Stables. Buggy.	Stables. Cans.	Stables. Caps.	Stables. Chains.
Headquarters	....	1½	½	....	....	....	....	50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	..	....	....
No. 1	6	....	....	3	1	28	1	53	3	7	1	2	....	....	1	1	1	18	1	....	1	....	1	4	....	1	....	....	3
No. 2	....	....	....	1	3	6	....	19	2	4	1	1	....	....	1	1	1	21	....	....	1	....	6	2	4	....	....	....	2
No. 3	....	....	....	1	2	5	....	25	1	3	....	1	....	1	1	1	1	14	....	....	....	....	....	....	....	....	....	....	....
No. 4	2	4	1	1	2	6	1	32	2	3	1	1	....	1	1	1	1	20	....	....	....	....	2	1	3	....	1	....	3
No. 5	1	....	....	....	2	7	1	20	2	4	1	1	....	....	1	1	1	26	....	....	1	....	1	1	....	....	....	....	2
No. 6	2	....	....	1	1	18	1	24	1	2	1	....	....	....	1	1	1	14	....	....	....	....	5	3	2	....	3	....	....
No. 7	2	....	....	1	....	2	1	35	1	2	1	1	....	1	1	1	....	18	....	....	....	....	....	....	....	....	....	....	..
R. I. Hospital	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	12	....	....	....	....	....	2	....
Totals	13	5½	1½	8	11	72	5	258	12	25	6	7	....	3	7	7	6	131	1	2	3	12	17	11	9	1	4	2	10

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POLICE DEPARTMENT.—*Under control of the Chief of Police.*

STATIONS.	STABLES.																											
	Chamois Skins.	Clocks.	Coal Hods.	Corn, bushels.	Curry combs and brushes.	Cuspidors.	Dusters, feather.	Forks.	Gall Cures, boxes.	Grease, axle, boxes.	Halters.	Harnesses, double.	Harnesses, single.	Hay, bales.	Hay Cutter.	Hoisting Tackle.	Hoof Ointment, cans.	Horses.	Horse Blankets.	Horse Blankets, oil cloth.	Horse Clippers, pairs.	Hose and Pipe, feet.	Lanterns.	Mats.	Mirrors.	Monkey Wrenches.	Oats, bushels.	Oil Cans.
Headquarters	....	....	....	....	....	....	....	...	4	15	....	....	....	....	....	....	..	....	....	....	....	...	....	....	...	....	....	....
No. 1	2	2	2	2	3	....	1	3	...	...	5	2	5	18	....	1	....	5	3	....	2	....	4	....	1	1	90	2
No. 2	....	....	....	....	2	...	....	3	....	....	5	....	1	2	....	1	....	7	7	5	....	50	....	....	....	....	....	....
No. 3	1	....	....	1	1	2	1	2	....	....	1	....	....	7	....	1	....	1	1	...	....	50	....	....	....	1	2	1
No. 4	2	1	2	1	3	1	1	1	....	...	2	...	2	5	1	1	...	3	2	...	....	50	2	1	1	1	5	1
No. 5	1	1	1	1	2	1	1	1	...	....	....	....	....	18	....	....	...	1	....	...	....	50	2	1	1	1	12	1
No. 6	1	1	....	....	2	....	1	2	....	....	4	...	....	15	....	....	1	5	2	1	....	....	2	1	1	1	5	1
No. 7	....	....	....	....	....	.. .	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
R. I. Hospital	....	....	....	....	....	....	....	....	....	....	....	1	2	....	....	....	....	3	....	....	....	....	...	....	....	....	....	....
Totals	7	5	5	5	13	4	5	12	4	15	17	3	10	65	1	4	1	25	15	6	2	200	10	3	4	5	114	6

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POLICE DEPARTMENT.—*Under control of the Chief of Police.*

STATIONS.	Stables.																					
	Pails.	Patrol Wagons.	Patrol Wagon Harnesses.	Prisoners' Van.	Rakes.	Robes, fur.	Saddles.	Saddle Pads.	Settees.	Shovels.	Sleighs.	Sponges.	Step Ladders.	Stoves.	Straw, bales.	Stretchers.	Tables.	Virequire, cans.	Wagons.	Wagon Jacks.	Whips.	Wringers.
Headquarters...	....	....	....	....	....	....	3	....	....	....	....	40	....	....	....	....	....	....	....	....	....	....
No. 1........ ...	5	2	2	1	....	2	2	1	2	2	1	6	1	....	3	2	....	1	3	1	....	1
No. 2...........	3	1	1	....	....	....	6	6	....	2	....	5	....	....	1	1	....	....	....	1	....	....
No. 3...........	2	1	1	....	....	....	....	....	1	1	....	2	....	....	1	1	....	....	....	1	1	....
No. 4...........	2	1	1	....	....	....	1	1	1	1	....	1	....	2	....	....	1	....	1	1	1	1
No. 5...........	1	1	1	....	....	....	....	....	1	1	....	2	....	1	1	....	1	....	....	1	1	....
No. 6...........	1	1	1	....	1	....	3	3	1	2	1	2	....	1	1	....	1	1	....	1	....	....
No. 7...........	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
R. I. Hospital....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	....	....	....
Totals	14	7	7	1	1	2	15	11	6	9	2	58	1	4	7	7	3	2	4	6	3	2

STATION.	AMOUNT.
Headquarters..........	$181 11
No. 1..........	8,681 20
No. 2..........	9,701 48
No. 3..........	7,965 55
No. 4..........	11,010 76
No. 5..........	12,283 72
No. 6..........	8,520 33
No. 7..........	7,551 10
R. I. Hospital..........	2,404 56
Total..........	$68,299 75

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POOR DEPARTMENT.

Basement Floor. **Kitchen.**	
Range, coffee urn, bean boiler, 2 tables, 1 refrigerator, dishes and cooking utensils	$175 00
Laundry.	
Washing utensils, etc	2 00
Women's Dining Room.	
5 settees, 2 tables	3 00
Tramps' Dining Room.	
10 chairs	2 00
Tramps' Dormitory.	
30 double beds and bedding	414 66
First Floor. **Office.**	
3 desks, 1 typewriter, 8 chairs, 1 letter press, linoleum, 6 curtains, 6 awnings	225 00
Consultation Room.	
1 table, 2 chairs, 1 curtain	7 00
Outer Office.	
4 settees, 1 wire mat	8 00
Front Hall.	
2 umbrella racks	8 00
Vault.	
1 safe	10 00
Store Room.	
Shoes, clothing, etc	10 00
Private Office.	
1 table, 1 desk, 7 chairs, carpet, curtains, 2 awnings	120 00
Second Floor. **Matron's Dining Room.**	
1 table, 1 sideboard, 6 chairs, 1 mirror, carpet, curtains	30 00
Chamber.	
1 chamber set, 1 sofa, 4 chairs, carpet, 2 pairs draperies	80 00

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PARLOR.

Carpet	$17 00

MATRON'S OFFICE.

1 secretary, 1 table, 1 lounge, 3 chairs, carpet, curtain	27 00

CHAMBER.

1 chamber set, carpet, lounge, wardrobe, 2 pairs draperies	55 00

SMALL DORMITORY ON RIGHT.

2 beds and bedding, 1 wardrobe, 3 chairs, 1 stand	35 00

SMALL DORMITORY ON LEFT.

1 bed, 2 cribs and bedding, 1 wardrobe, 2 chairs	46 00

LARGE DORMITORY.

7 beds and bedding, 1 wardrobe, 8 chairs	95 00

STORE ROOM.

Bedding, etc	20 00

THIRD FLOOR. SMALL DORMITORY ON RIGHT.

1 bed, 2 cribs and bedding, 1 wardrobe, 3 chairs, 1 stand	45 00

SMALL DORMITORY ON LEFT.

2 beds, 1 crib and bedding, 1 wardrobe, 3 chairs, 1 stand	49 00

LARGE DORMITORY.

7 beds and bedding, 7 chairs, 1 wardrobe		92 00
		$1,575 66

WOOD YARD.

Wood yard barn, shed and office	$250 00	
40 cords of wood, uncut, at $5.00	200 00	
35 cords of wood, cut, at $8.00	280 00	
3 horses	475 00	
2 wagons	150 00	
1 buggy, "Goddard"	150 00	
6 sets harness	65 00	
1 sleigh	20 00	
14 axes, 44 saws, 32 sawbucks, 2 stoves, 4 wheelbarrows, 6 blankets, 1 chair, 1 haycutter, 2 lamps, 2 crowbars, 12 baskets, 2 whips, 1 hoe, 1 rake, 2 wagon covers, 1 waterpail, 1 oil can, 1 desk, 1 wagon jack, 2 wrenches, 1 duster, 2 wood shovels, 14 chopping blocks, 100 feet rubber hose	.50 00	$1,640 00
Total		$3,215 66

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PUBLIC BUILDING DEPARTMENT.

(Under control of Superintendent.)

Stable Account.

One horse and harness	$180 00	
One horse and harness	150 00	
One horse and harness	120 00	
One harness	5 00	
One top buggy	120 00	
One top buggy	75 00	
One Concord buggy	75 00	
Two express wagons	125 00	
One set bob runners	10 00	
Two fur robes	50 00	
One lumber reach	35 00	
One sleigh	10 00	
Two plush robes	10 00	
Three street blankets,	10 00	
Three barn blankets	3 00—	$978 00

Carpenters' Stock.

School furniture on hand (second-hand)	$200 00	
Nails and spikes	55 00	
Lumber	794 35	
One furnace	10 00	
Jack, wood and clamp screws	10 00	
Stoves and pipe	20 00	
Shovels, hoe and rake	5 00	
Cross-cut saw	4 00	
Vises and augers	8 00	
Boring machine	6 00	
One pair cutting shears	5 00	
Three iron bars	2 00	
Grindstone and frame	12 00	
Miscellaneous tools and hardware	158 00	
213 gross wood screws	40 74—	$1,330 09

Painters' Stock.

Alcohol	$149 50	
White lead	101 75	
Window glass	321 28	
Turpentine	60 95	
Shellac	289 00	
Amount carried forward	$922 48	

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Amount brought forward	$922 48	
Spar varnish	150 00	
Colors and miscellaneous paints	107 33	
Paint brushes	60 20	
Painters' staging, ladders and steps	50 00	
Platform scales	8 00	
Paint pots and oil cans	10 00	
Glaziers' diamonds	16 00	
Blackboard paper	5 00	
Blackboard slating	80 00	
Billings, King & Co., paint	5 00	
Linseed oil	120 78	
Diamond liquid paint	50 00	
Bronze powders	25 00—	$1,609 79

SUPPLIES IN STORE ROOM.

600 ink wells	$66 00	
17 sweeping brushes	19 12	
10 scrub brushes	2 50	
12 mop sticks	3 00	
40 long handle scrub brushes	15 20	
30 shovels	20 10	
11 rakes	3 85	
10 lantern globes	1 20	
1 cotton mop	17	
2 waste baskets	1 26	
6 feather dusters	4 80	
50 feet of hose	5 50	
5 pulp basins	1 05	
3 pieces oil cloth	42	
24 coir mats	18 00	
3 thermometers	1 38	
50 pounds of cement	2 50	
1 stove shovel	12	
20 soap dishes	3 20	
2 pounds of cord	66	
12 wall brushes	17 50	
9 hoes	3 42	
1 cuspidor	73	
8 ice picks	4 32	
6 boxes cord	10 08	
133 pounds manilla rope	11 97	
14 handle brushes	4 62	
28 gas globes	4 64	
3 second hand clocks	15 00	
600 feet ½-inch weather strips	24 00	
200 " ⅝- " " "	8 00	
Amount carried forward	$274 31	

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Amount brought forward	$274 31	
11 coal hods	2 98	
22 large mats	88 00	
35 ash cans	89 60	
80 bars of soap	4 00	
2 pair door springs	3 00	
Toilet paper	1 75	
200 feet wire screen cloth	2 50	
4 whitewash brushes	8 00	
28 brooms	7 00	
9 snow shovels	2 25	
8 " " iron	2 67	
12 cans of glue	4 80—	$490 86

PUBLIC LIGHTS.

Under control of the Superintendent of Lights.

700 gas posts and cranes in street lighting	$6 00	$4,200 00
2300 " " not lighted	5 00	11,500 00
1400 naphtha posts in use	75	1,050 00
2000 lanterns in use	3 00	6,000 00
70 gas posts not in use	6 00	420 00
30 naphtha posts not in use	75	22 50
266 cross heads and frames	1 00	266 00
53 " "	50	26 50
900 common lanterns	2 00	1,800 00
700 sign lanterns	3 00	2,100 00
600 tin naphtha lamps	10	60 00
600 brass tube burners	10	60 00
20 naphtha filling cans	1 00	20 00
20 gallon measures	10	2 00
20 pint measures	10	2 00
20 tunnels	10	2 00
1600 gas cocks	50	800 00
1300 gas burners	30	390 00
Gas pipes, fittings, and tools for same		100 00
1 horse		50 00
2 wagons	50 00	100 00
2 sets harness	15 00	30 00
1 buggy		100 00
1 pung		20 00
Blankets and materials for care of horses and harnesses		30 00
1 wheelbarrow		2 00
Painting materials		25 00
		$29,178 00

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PUBLIC PARKS.

(Under control of Park Commissioners.)

At Roger Williams Park.

Animals.

6 horses	$500 00	1 peccary	$10 00
13 ponies and 1 donkey	1,300 00	45 South Down sheep	225 00
9 deer	225 00	12 rabbits	4 80
8 prairie dogs	16 00	1 black bear	30 00
5 monkeys	40 00	2 paroquets	10 00
20 pea fowl	100 00	21 China geese	42 00
22 wild geese	44 00	3 lions	2,225 00
45 ducks	22 50	1 pair leopards	600 00
1 swan	30 00	5 hyenas	700 00
1 Bengal tigress	1,000 00	1 black leopard	300 00
2 jaguars	600 00	2 pumas	200 00
5 raccoons	20 00	1 elephant	1,500 00
4 Hampshire Down sheep	20 00	1 rattlesnake	5 00
2 oscelots	50 00	3 moose	650 00

Settees.

34 wooden settees, Roger Williams Park	$15 00	45 settees, Dexter Training Field	$180 00
4 rustic settees, Roger Williams Park	4 00	45 settees, Haywark Park	180 00
306 iron settees, Roger Williams Park	918 00	20 settees, Prospect Terrace	80 00
45 settees, Tockwotton Park	180 00	12 settees, Franklin Park	48 00
		10 settees, Washington Park	40 00

Hose.

450 feet 2½ in., Roger Williams Park	$45 00	Rubber hose, Hayward Park	$20 00
Rubber hose, Roger Williams Park	40 00	3 hose reducers, Roger Williams Park	3 00
Rubber hose, Tockwotton Park	20 00		

Harnesses, Wagons, Etc.

4 tip carts	$75 00	3 pair double harness	$125 00
3 watering carts	650 00	1 business harness	20 00
4 cart harnesses	40 00	2 horse lawn mowers	40 00
2 express harnesses	15 00	1 jumper sleigh	6 00
1 pond harness	5 00	3 hand carts	20 00
2 lead and 6 pony harnesses	75 00	1 road roller	25 00
		1 express wagon	25 00

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1 lumber wagon	$20 00	1 open buggy	$125 00
4 pony wagons	250 00	1 2-horse wagon	300 00
3 dog carts	75 00	1 2-horse mowing machine	35 00
2 sets horse lawn boots	8 00	1 pony saddle	5 00
1 sleigh	40 00	Blankets, robes, halters, brushes, etc	60 00
1 lumber reach	70 00		
1 top buggy	150 00		

Ice Tools, Etc.

13 snow scrapers	$100 00	2 ice chisels	$4 00
1 ice planer	150 00	120 pairs skates	100 00
5 ice hooks	1 00	Skate straps, trimmings and rivets	10 00
1 skate grinding machine	50 00	30 ice chairs	90 00
2 pairs ice tongs	3 00	95 snow shovels	23 75
1 ice auger	2 50	2 skating signals	4 00
1 toboggan slide	100 00		
3 snow ploughs	6 00		

Tools.

2 harrows	$15 00	2 wagon jacks	$3 00
9 grass hooks	1 50	1 manure hauler	50
2 paving hammers	3 00	1 hay cutter	3 00
Beetles and wedges	5 00	5 lawn sprinklers	25 00
1 grade line and reel	2 00	3 branding irons	3 00
1 saw clamp	50	5 pairs sheep shears	2 50
1 vise	5 00	2 post hole spoons	1 00
Lot of small tools	15 00	1 hand pump	2 00
2 monkey, 3 pipe and 2 cart wrenches	5 00	1 fertilizer spreader	25 00
4 border trimmers	1 00	3 catch basin tops	12 00
1 grindstone	10 00	1 wheel weeder	1 50
1 foot lathe	8 00	20 scoop shovels	15 00
1 vegetable cutter	8 00	4 sidewalk scrapers	1 20
2 jack screws	8 00	1 cleaver	1 00
1 hay knife	1 00	1 saw	75
1 stump puller and fixtures	40 00	12 tool boxes	75 00
19 lawn mowers	75 00	1 hay tedder	35 00
8 scythes and snaths	9 00	1 steam road roller	2,400 00
82 iron rakes	24 60	1 steam boiler and fittings	150 00
2 steak knives and steel	2 00	1 cultivator	6 00
1 pair snip shears	2 00	5 ploughs	40 00
1 pair hedge shears	2 00	2 scoop scrapers	10 00
1 pair shears	1 00	2 watering troughs	15 00
2 large rakes	1 50	184 shovels	92 00
1 pairs pruning shears	2 00	63 pick axes	18 90
4 pairs horse clippers	5 00	41 grub hoes	15 00
11 hay forks	2 75	44 hay rakes	11 00
1 horse rake	20 00	5 spades	3 75
		18 axes	9 00
		8 bush scythes	6 00

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62 spading forks	$24 80	15 iron bars	$15 00
2 adze	3 00	4 hand saws	4 00
20 manure forks	10 00	12 chains	24 00
4 turf cutters	3 00	4 eveners	5 00
1 garden roller	15 00	11 whiffletrees	13 75
1 land smoother	2 50	18 potato diggers	4 50
3 hose wrenches	2 25	27 hoes	8 10
1 hatchet	50	1 post hole digger	1 00
2 cross-cut saws	2 50	1 hand vise	50
72 mattocks	21 60	2 sledges	1 50

MISCELLANEOUS.

100 tons hay	$1,500 00	24 park music stands	$50 00
55 cords wood	110 00	10 water barrels	5 00
Boat house and office furniture	1,750 00	1 gal. oil can	35
12 tables	15 00	6 fire extinguishers	75 00
1 show case	4 00	4 pair rubber boots	9 00
1 stencil plate	1 00	1 spraying pump and fittings	10 00
Tent poles	25 00	1 set scales	9 00
2 copper boilers	10 00	1 cash register	25 00
27 wooden and iron pails	5 00	2 parrot stands	6 00
Cups	7 30	7 coal hods	1 75
8 watering pots	8 00	25 brooms	4 00
200 signs	85 00	25 toboggans and cushions	50 00
1 band stand	10 00	1 head light	30 00
1 water motor	50 00	1 hydrant head	5 00
11 iron and 6 wooden wheelbarrows	17 00	Furniture at Betsey Williams Cottage	500 00
4 ladders	12 00	12 vault tubs	12 00
7 vases	18 00	12 hand scrapers	10 00
2 barrels and truck	8 00	2 gravel screens	4 00
8 ash cans	20 00	1 step ladder	5 00
69 storm sash	175 00	250 iron guards	25 00
24 padlocks	15 00	Nails	10 00
1 flag	25 00	Paints, oils, brushes, etc.	10 00
15 lanterns and lamps	22 50	3 blocks and falls	15 00
1 gasoline lamp	1 00	Set of letters and figures	1 00
8 stoves and pipe	15 00	1 fountain	50 00
2 cement stools	3 00	1,000 fertilizer bags	50 00
10 swings and frames	100 00	Drain pipe	15 00
49 boats and oars	1,800 00	8 push brooms	4 00
2 steam launches	1,500 00	4 window awnings	8 00
5 baskets	5 00	Storm porches and fountain covers	25 00
27 boat cushions	27 00	20,000 feet spruce lumber	100 00
2 chairs and 1 clock	35 00	Baby carriages	8 00
Planks, boards and joists	25 00	1 oil tank	5 00
400 brass checks	15 00		

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Art Museum.

27 mounted mammals and skeletons	$1,792 00	19 insect cases	$38 00
22 mounted birds	131 50	1 aquarium tank	2 50
Mammal and bird skins	171 55	2 glass shades	2 00
Eggs and insects	66 00	Glass bottles and jars	3 50
Minerals and fossils	1,236 25	2 tables and horses	2 00
Shells, corals, and sponges	368 55	2 earthen jars	3 00
Reptiles	46 40	Rubber mat	25 00
Ethnological material	1,800 00	3 fibre mats	5 00
Collection of coins	1 15	1 set Smiths' markers	4 50
45 bound publications	90 00	1 oil stove	1 50
13 publications (paper covers)	25 00	1 tea kettle	1 00
113 pamphlets	16 90	1 bellows	1 00
Portrait, Mr. John Steere (in oil)	10 00	1 atomizer	36
Portrait, Lieut. Joseph S. Milne (in oil)	15 00	130 picture hooks	8 00
Portrait, Mr. Clark Dalrymple	5 00	Chemicals	5 00
Portrait, Mr. George Wilkinson	5 00	5 pails	2 00
The Battle of Waterloo (in oil)		1 window opener	25
Ideal female head		6 cuspidors	1 00
Mahogany exhibition cases	3,128 25	2 feather dusters	1 50
1 oak desk and chair	69 00	2 handle brushes	1 00
Oak settees and chairs	500 00	3 hand brushes	50
2 step ladders	12 00	2 mop handles and wringers	2 00
2 common chairs	50	1 snow shovel	25
7 pine trays	1 05	2 iron shovels	1 00
1750 paper trays	15 00	1 wheel barrow	1 00
1 umbrella stand	10 00	1 rake	25
		1 axe	50
		1 bit stock and 3 bits	1 60
		3 gimlets	10
		2 awls	05
		½ box tags	13
Total			$36,753 49

Davis Park.

500 feet hose	$35 00	8 shovels	$2 00
2 lawn mowers	15 00	3 street hoes	60
4 grass hooks and rifles	25	2 edging knives	50
3 whetstones	10	3 pails	1 00
3 oil cups	20	3 axes	1 00
5 scythe sticks and 9 scythes	5 00	1 hammer and saw	1 00
16 wooden rakes	3 20	2 baskets	50
3 iron rakes	1 00	2 wheelbarrows	2 00
4 manure forks	1 00	2 picks	1 50
3 hay forks	1 00	1 snow shovel	25
		1 step ladder	3 00

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62 settees	$248 00	32 feet drain pipe	$20 00
3 brooms	50	3 hydrant wrenches	1 50
1 long handled brush	75	2 reducers	2 00
1 dust pan and brush	1 00	15 tons hay	225 00
1 feather duster	50	17 signs	12 00
1 grindstone and frame	3 00	1 hand cart	5 00
Total			$594 35

RECAPITULATION.

Roger Williams Park	$36,753 49
Davis Park	594 35
	$37,347 84

PUBLIC SCHOOLS.

(Under control of School Committee.)

481 Attendance Books	at $3 85	per C.	$18 52
642 Arithmetics, Wentworth Mental	27		173 34
237 " Cook & Cropsey, Elementary	43		101 91
206 " " " Advanced	72		148 32
3 " By Grades	30		90
1,400 boxes pegs	01¼		17 50
100 boxes letters	01½		1 50
1,032 blackboards	1 70	per C.	17 54
15 boxes button fasteners	25		3 75
138 packages blotters	06½		8 97
5 blackboard erasers	4 00	per gr.	15
6 doz. bottle fillers, (ink)	1 25	per doz.	7 50
191 Blaisdell's "Our Bodies"	55		105 05
129 " "How to Keep Well"	38		49 02
100 " "Child's Book of Health"	25½		25 50
45 blackboard rulers	28		12 60
42 great gross Button Moulds	60		25 20
4 Beacon Lights	60		2 40
10,529 covers	01¼		131 61
5,817 "	01½		87 26
3,803 "	02		76 06
783 "	03		23 49
1,015 ciphering pads	2 18	per C.	22 13
104 call bells	3 75	per doz.	32 50
13 composition books	2 00	"	2 17
566 gross crayon, white	04½	per gr.	25 47
9 " " colored	42	"	3 78
327 boxes color tablets	09	each.	29 43
2½ doz. boxes ½ cubes	60		1 50
5 boxes compass leads	30		1 50
127½ doz. "	21 00	per gr.	223 13
7,000 circles	40	per M.	2 80

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110 lbs. colored cutting paper	$ 05¼	per lb.	$5 78
10½ doz. coat hooks	25		2 63
4 clay jars	3 50	per doz.	1 17
20 Cyr's Primers	22		4 40
19 " 1st Readers	29		5 51
20 " 2d "	32		6 40
65 doz. drawing books, Prang's	96	per doz.	62 40
2,120 drawing books, 8 x 11	92	per C.	19 50
780 " " 7 x 10	1 72	"	13 42
700 paper fasteners	10	"	70
11 packages drawing paper, white	75		8 25
714 lbs. drawing practice paper, 6 x 9	03¼	per lb.	23 20
784 " " " " 9 x 12	03¼	"	25 38
204 drawing kits	20		40 80
101 Academic Dictionary	1 20		121 20
1 International Dictionary	8 50		8 50
2,630 drawing models, wood	02½		65 75
130 Bradley Script Builder	08		10 40
104 Providence Script builder	08		8 32
235 " Table " No. 1	06		14 10
559 " " " No. 2	06		33 54
2 " Number builder	06		12
611 practice manilla paper	10		61 10
601 " white paper	17		102 17
272 Prang's Models, 20	12		32 64
167 " " 21	12		20 04
18 Primary Manuals	45		8 10
5 " " Part 1	45		2 25
5 " " " 2	45		2 25
7 " " Color	80		5 60
4 Prang's Manual, No. 1	40		1 60
17 " " 2	40		6 80
7 " " 3	40		2 80
14 " " 4	75		10 50
178 packages color assortment	....		83 62
16 gross extra hard pencils	1 18	per gross.	18 88
17 " soft medium pencils	1 18	"	20 06
66 " medium black pencils	1 18	"	77 88
32 2-12 gross common pencils	28		9 01
40 gross colored pencils	4 35		174 00
1,050 postals printed	....		10 50
2¾ lbs. pencil erasers	50		1 38
110 pointers, rubber tips	1 25	per doz.	11 46
20 gross Eagle pens, No. 2	25		7 00
37 " Esterbrooks, No. 101	29½		10 92
10 8-12 gross penholders	86		9 17
10½ doz. pitch pipes	21 00		17 75
556 peg boards	06	each	33 36
26 pencil sharpeners	2 87		74 62
230 packet double	15½		35 07

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255 packet single	$ 15¼		$38 89
75 essay	18¼		13 69
90 cap	31¾		28 58
30 packages white cutting paper	18		5 40
92 thesis	25½		23 46
105 registers	29		30 45
51 gross No. 12 rubber bands	1 25	per gt. grs.	5 32
35 " " 8 " "	88	" "	2 57
23 " " 9 " "	1 00	" "	1 92
9 " " 13 " "	1 40	" "	1 05
32 " " 18 " "	2 00	" "	5 00
4 " " 32 " "	45	per gross.	1 80
14 doz. 12-inch rulers	08½	per doz.	1 19
2,539 spelling slips, single	65	per C.	16 50
1,500 " " double	65	"	9 75
3,431 " blanks, No. 1	66	"	22 64
2,148 " " " 2	83	"	17 83
915 sewing cards	....		2 00
903 solfeggi	....		1 57
88 boxes slate pencils	06½	per box.	5 72
812 sewing boxes	2 25	per C.	18 27
57½ doz. scissors	1 70	per doz.	97 75
4 doz. screw eyes	....		10
2½ gross ⅞ screws	09	per gross.	23
18 soap dishes	75	per doz.	1 13
265 sewing books	17 50	per M.	4 64
77 Songs of Nation	50		38 50
159 spellers, Graves'	21½		34 19
1,351 packages scaling paper	05		67 55
9,800 sponges	33	per C.	32 34
6,725 envelopes, plain	58	per M.	3 90
1,475 stamped envelopes	21 80	"	32 16
1,775 coin "	50	"	89
24 Grammar Masters' Registers	1 25		30 00
24 " " Attendance Books	1 50		36 00
27 bottles Le Page's Glue, large	1 25	per doz.	2 82
17 " " " small	75		1 06
5 Great Americans	45		2 25
675 Geographies, Frye's Primary	51		344 25
106 " " Complete	1 04		110 24
19 " " Manuals, Com	45		8 55
35 Globes	1 92	per doz.	5 60
33 Primary Manuals, Frye's	09		2 97
84 Histories, Montgomery's	84		70 56
19 ink stands	2 25	per doz.	3 56
7 inking pads	1 25	"	73
30 gallons ink in jugs	65	each	19 50
35 quarts Carter's	4 50	per doz.	12 75
36 King toilet paper holders	50		18 00
91 " " " (packages)	9 90	per C.	9 00
1,500 letter sheets	01½		22 50
23 Little Sisters	43		9 89

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206 Language, Tarbell's, Part I	$ 34		$70 04
186 " " " II	51		95 46
10 " " Manuals	22		2 20
1 set dry measures	12 50	per doz.	1 05
9 pints mucilage	4 00		3 00
¾ doz " small	75	per doz.	57
16 Mother Nature Stories	43		6 88
44 Music Readers, Normal 1	27½		12 03
171 " " " 2	52		88 92
597 " " Cecilian	72		429 84
3,253 Map Outlines	1 35	per C.	43 92
553 Number Cards, 3d Year	02		11 06
892 " " Advanced	01		8 92
4 " " Badlum	34		1 36
¾ doz. Numeral Frames	2 50	per doz.	1 88
57 Natural History Readers, No. 1	20		11 40
65 " " " " 2	30		19 50
10 Nature and Verse	67		6 70
113 Normal Primers	15½		17 42
178 " 1st Readers	20½		36 49
174 " 2d "	31½		54 81
773 " 3d "	41		316 93
122 " 4th "	51		62 22
200 " 5th "	71		142 00
58 Our World Readers	43		24 94
17 toilet paper diamond	9 50	per C.	1 62
28 boxes toothpicks	03		84
2,600 thumb tacks	40	per C.	10 40
17 Ten Little Boys	43		7 31
1,400 trays	1 50	per M.	2 10
440½ doz. Writing Books, small	61¾	per doz.	272 00
714½ " " " large	82½	"	589 46
58 Vertical Manuals	42	each.	24 36
21 doz. Movement Tablets	1 02	per doz.	21 49
27 World and Its People	44		11 88
5 yard sticks	38		1 90
Total			$6,404 61

Janitors' Supplies.

17 ash cans	at $2 56	$43 52
27 Bon Ami	07	1 89
17 brooms	17	2 89
3 " small	10	30
6 coal hods	25	1 50
1 chamois skin	50	50
5 coal shovels	66	3 30
403 square feet chain mats	20	80 60
64 yards cheese cloth	03½	2 24
34 dust brushes	38	12 97
6 dust pans	15	90

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15 gal. disinfectant	$1 50	$22 50
10 duster handles	46	4 60
7 14-inch floor brushes	1 17	8 19
12 16- " " "	1 38	16 56
10 flue brushes	1 50	15 00
19 feather dusters	1 00	19 00
5 furnace hooks	79	3 95
1 furnace slicer	1 73	1 73
3 " hoes	1 44	4 32
6 " shovels	59	3 54
1 flat blade	46	46
9 galvanized iron pails	19	1 71
4 gas turners	40	1 60
3 grass shears	18	54
5 " hooks	18	90
4 hose nozzles	50	2 00
6 oil cans	2 00 doz.	1 00
25 gal. kerosene oil	09	2 25
5 globes for lanterns	05	25
2 lawn rakes	33	66
4 mops	12	48
8 mop handles	10	80
½ gross matches	....	15
4 monkey wrenches	45	1 80
4 oil cups	10	40
3 cans Putz pomade	25	75
9 rubber mats, 18 x 36	1 08	9 72
8 " " 20 x 40	1 44	11 52
6 scrub brushes	1 80 doz.	90
4 steel rakes	32	1 28
8 stove shovels	10	80
5 snow shovels	33	1 65
4 Sapolio (cakes)	07	28
12 screw drivers	16	1 92
27 scythe stones	....	1 13
88 sponges	40	35 20
6 cakes soap	....	19
22 soap powder	05	1 10
4 sawdust barrels	35	1 40
46-ft. step ladders	14	6 44
6 Tampico brushes	95	5 70
25 tin cups	10	2 50
10 " dippers	10	1 00
3 taper holders	25	75
5 thermometers	15	75
42 window brushes	1 00	42 00
2 wringer pails	2 00	4 00
30 wash basins	18	5 40
4 watering pots	59	2 36
		$403 74

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Team Account.

1 bay mare	$150 00
1 H. M. Howe phaeton	100 00
1 harness	25 00
1 fur robe	8 00
1 plush robe	2 00
1 wool robe	1 00
1 street blanket	1 50
1 light blanket	1 50
1 stable blanket	1 00
1 fly blanket	75
1 wool mat	1 00
1 halter	1 00
1 hitch weight	1 25
1 hitch rope	25
1 whip	15
1 surcingle	20
Total	$294 60
Aggregate	$7,102 95

WEIGHTS AND MEASURES.

Under control of the City Sealer.

1 large even balance, with case and weights from ¼ oz. to 50 lbs., State property	
1 small even balance, case and weights from 1 pwt. to 1,000 pwts., Troy	$100 00
1 set of 3 Troy weights, 1-100 oz,, 1-200 oz., 1-300 oz.	20 00
1 set of grain weights, from 1 to 50 grains Troy	1 70
1 nest of brass cup weights, from 8 ozs. down to ⅛ oz. Troy	2 50
1 sealer's beam	75 00
2 sealer's scales and boxes with weights	40 00
2 " " condemned	
1 nest (4), copper dry measures, 2 qts. to ½ bush., old, unserviceable	5 00
4 nickel-plated dry measures, 1 gill to 1 quart	5 00
1 set iron dry measures, from 1 quart to ½ bushel	25 00
1 set nickel-plated wine measures, from 1 gill to 1 gallon	25 00
1 set nickel-plated wine measures, from 1 gill to 1 gallon, for team	25 00
1 set iron wine measures, from ½ pint to 8 quarts	25 00
1 set copper wine measures, from ¼ pint to 8 quarts, unserviceable	5 00
22 iron weights, from 2 to 25, avoirdupois	26 50
160 fifty pound iron weights	480 00
1 brass yard measure	5 00
1 maple T square for charcoal baskets	1 50
1 maple T square for coal baskets	1 50
1 maple T square for wood baskets	1 50
2 sealers' anvils at $3. 19 each	6 38

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1 drilling lathe	$20 00
1 upright portable drill	5 00
12 stamps (steel) for sealing	7 10
3 boxes for tools and weights	3 50
2 iron wrenches	1 00
2 nail hammers	1 00
1 bit-stock	50
1 carpenter's saw	50
1 tamping iron	50
1 iron crane for wagon	50
1 small axe	50
1 large screwdriver	50
1 Thatcher pipe wrench	75
1 Parker vise	6 75
2 sets rubber stamps	3 50
1 plumber's gas stove	6 00
1 plumber's fire pot	2 50
1 box opener	75
1 posthole digger	2 00
1 truck for 50-lb. weights	1 00
1 extension ladder	5 00
2 short ladders	2 00
1 measuring wheel	3 50
50 street signs, at 22 cents	11 00
61 galvanized iron signs, at 23 cents	14 13
500 street numbers, at 1½ cents	7 50
500 street numbers, at 2¾ cents	13 75
500 street numbers, 3 cents	15 00
1 roller top desk	20 00
1 flat top desk	10 00
5 office chairs	10 00
1 atlas (Providence county), surveys	20 00
1 book, street maps	5 00
	$1,077 31

DEPARTMENT OF PUBLIC WORKS.

(Property in possession of and under control of the Commissioner.)

City Engineer's Department.

Transit instruments	$2,450 00
Leveling instruments	1,010 00
Tapes, boxes, and plumb bobs	250 00
Standard rods	56 00
Range poles and leveling rods	350 00
Miscellaneous stationery	30 00
Blue process frames and supplies	70 00
Draughting tools, paper, materials, etc., etc	945 00
Meteorological instruments	577 00
Total	$5,738 00

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Highway Department.

46 horses	$6,900 00
7 sets lead harness	105 00
16 sets double harness	400 00
15 single cart harness	165 00
5 carriage harnesses	50 00
4 carriage robes, 1 buffalo robe	50 00
45 woolen blankets	135 00
34 surcingles	13 60
50 halters	25 00
19 double carts	1,520 00
19 single carts	1,100 00
7 low gears	1,050 00
7 watering carts	1,200 00
7 sweeping machines, 8 extra brooms	2,800 00
1 steel steam box	70 00
4 steam rollers	12,000 00
2 express wagons	125 00
4 top buggies	415 00
10 tool wagons	350 00
3 sleighs	45 00
3 horse sleds	75 00
2 road machines	400 00
2 wheel scrapers	80 00
10 stone drags	20 00
5 snow plows	50 00
2 hay cutters	10 00
2 copper water tanks	4 00
15 forks	3 00
1 plumb bob	1 00
13 hydrant heads	260 00
21 axes	8 40
500 pounds iron	12 50
200 pounds steel	13 00
30 pounds horseshoe nails	4 80
1,000 carriage bolts	18 00
50 machine bolts	1 75
264 picks	158 40
295 points, chisels and sets	95 00
100 pounds old brass	6 00
725 grade stakes	20 00
40 grade posts	8 00
72 large shovels	18 00
16 scoop shovels	8 00
360 small shovels	90 00
98 long-handled shovels	19 60
135 hoes	22 95
42 rakes	13 44
1 oil pump, 1 glue pot	2 50
4 sets blocks and falls	$20 00
8 stoves	20 00
72 pounders	36 00
112 steel bars	56 00
1 iron scraper	2 50
16 oil feeders and 25 oilers	8 00
26 water pails, 15 dippers	4 00
200 rattan brooms (new)	80 00
51 rattan brooms (old)	10 20
25 gutter brooms	5 00
5 wagon jacks	7 00
1 carriage jack	1 00
28 screens	49 00
8 ladders	16 00
6 oil tanks	24 00
180 lanterns and globes	54 00
1 Fairbanks scale (12 tons)	175 00
8 desks	24 00
2 clocks	4 00
Watchman's clock	5 00
2 chairs	2 00
16 sets lead bars	24 00
1 horse sling	3 00
Extra parts of harnesses (new)	15 00
Harness makers' supplies	14 00
24 macadam hammers	6 00
42 mattocks	12 60
29 tamping bars	24 00
19 hand hammers	9 50
20 street horses	15 00
66 drills and 5 bevels	40 00
2 wooden wheelbarrows	1 25
16 plow points (iron)	13 60
26 plow points (steel)	67 60
5 kegs nails	8 75
½ bbl. axle grease	6 00
48 iron wedges	15 36
18 tape lines	13 50
6 trowels	1 80
29 sledges	29 00
10 extra horse collars	10 00
12 squares	5 40
20 blackboards	2 00
16 straight edges	4 80
25 pounds vermillion	6 25
2 gallons varnish	4 50
6 paint brushes	2 40
8 feed bags	3 20

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12 kegs horse shoes	$42 00
1 box sharp toe calks	1 75
2 plows, wooden beam	12 00
11 plows, steel beam	235 70
24 hammers	16 80
300 tire bolts	1 00
300 coach screws	6 00
3 wooden squares	3 00
17 wooden and iron clamps	8 50
21 two feet rules	1 75
1 water motor, shafting, hangers, pulleys, etc.	50 00
1 band saw machine	65 00
1 hub box machine	10 00
1 washer cutter	1 00
6 corn brooms, 1 spade	1 50
3 cross-cut saws	4 50
2 bush scythes	1 00
19 spirit levels	11 40
34 pick handles	4 25
66 rasps	30 00
134 files	40 00
71 paving hammers	71 00
6 drill spoons	5 00
36 street signs	36 00
2 poles for trimming trees	2 00
1 hand cart	3 00
14 tool boxes	140 00
60 feed tubs	9 00
138 currycombs and brushes	75 00
3 ladles, 1 gallon measure	3 50
6 jack screws	18 00
32 oil cans	16 00
12 vises	48 00
1 hand truck	2 00
2 chain tackles	80 00
1 iron wheelbarrow	4 00
4 stone derricks	400 00
1 portable derrick	40 00
20 pounds lining metal	7 00
100 pounds spelter	5 00
2 stone crushers, 3 engines	9,000 00
1 screen and spider	200 00
1 set cast iron concaves, No. 5	48 00
1 set steel concaves, No. 5	193 38
1 set steel concaves, No. 4	150 00
2 sets cast iron concaves, No. 3	51 96
1 head, No. 3	79 30
12 brake pins	$6 00
250 feet rubber hose and 1 nozzle	30 00
1 set taps and dies, 1 jam plate	5 00
1 set clamps (Gates)	3 00
65 wrenches	19 50
1 pair chain tongs	3 50
1 rachet drill	2 00
3 Buffalo forges	36 00
1 Sturtevant blower	9 00
12 whips	6 00
5 eveners and 12 whiffletrees	22 67
26 neck yokes	32 50
14 spread chains	14 00
8 sets draft chains	3 20
38 stone and plow chains	38 00
8 hand barrows	4 00
40 pounds washers	2 00
250 pounds reeds, No. 4	62 50
1 heating furnace	3 00
2 wooden belt clamps	6 00
1 die for making roller picks	10 00
200 roller picks	100 00
1 copper sprinkler for water cart	26 00
22 cast iron rolls	11 00
4 babbitting sleeves	20 00
1 eccentric, No. 3	67 50
Patterns	300 00
5 iron lead poles	10 00
2 drilling machines and drills	80 00
3,000 feet of lumber	90 00
2 ship augers	1 50
10 bits, 3 pairs dividers	2 60
1 bit brace	1 00
100 spokes	6 00
9 pairs shafts	11 70
1 boring machine	3 00
1 bolt cutter	4 50
1 splitting machine	3 00
1 splitting guage	1 00
1 rounding machine	2 00
3 pairs cutting nippers	2 25
9 Stillson wrenches	9 00
14 hose wrenches	4 20
1 pipe cutter plate and dies	1 50
30 gallons cylinder oil	10 50

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40 gallons breaker oil.....	$10 00	5 machinist hammers ...	$3 00
50 gallons kerosene oil....	3 38	2 pairs calipers.....	2 00
150 pounds No. 4 compound	9 00	1 set lightning taps and dies.....	18 00
1 pound rainbow packing	50	1 machinist's spirit level	2 00
1 floor brush.....	1 00	1 horseshoe vise.....	10 00
4 bushel baskets.....	2 00	1 tire upsetter.....	22 00
7 head lights.....	14 00	Blacksmith tools.....	250 00
1 pair horse clippers....	1 00	Crushed stone.....	1,392 00
2 grindstones.....	8 00	24-inch crosswalk.....	821 60
1 gallon neat's foot oil...	70	20- " "	405 62
¼ barrel pitch.....	1 25	18- " "	168 98
4 pounds rubber packing	1 00	14- " "	334 10
150 pounds cotton waste...	9 00	Deep curbing.....	630 00
100 feet guy rope.....	6 00	7-inch curbing.....	7,432 68
18-inch rubber belting and and pulleys.....	25 00	Curb corners, 2 feet radius.	110 25
Elevator bolts.....	12 00	Curb corners, 3 feet radius.	130 00
2 sets rims.....	4 50	Circular curbing, 10 feet radius.....	183 75
3 planes, 2 draw knives.	3 50	Circular curbing, 8 feet radius.....	416 87
3 chisels, 4 hack saw blades.....	1 50	Old crosswalk, 14-inch....	40 00
2 belt punches.....	2 00	Old 7-inch curbing.....	14 00
20 hand saws, 2 buck saws	11 00		
10 hatchets.....	3 00		
Total.....			$55,739 74

Public Bridges.

Tools and supplies at Point street bridge.....	$211 85
" " Washington bridge.....	585 48
" " Central bridge.....	115 10

Supplies at Bridge Shop and Yard:

Collar, steel, for Point street bridge.....	50 00
Curbing, 99 pieces iron.....	100 00
Discs for Washington bridge.....	40 00
Friction drum.....	25 00
Gas pipe, rail, and posts.....	7 00
Gear, 1 cast iron.....	5 00
Lumber, yellow pine.....	325 00
" white pine.....	15 00
" white oak.....	125 00
" spruce	24 00
Nails, cut.....	20 25
Nails, wrought.....	2 80
Paint stock, pots and brushes.....	68 38
Paper, tar.....	49 61
Plungers for Washington bridge.....	10 00
Spikes, cut.....	28 50

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Spikes, galvanized	$12 25
Valley street bridge, iron from	400 00
Various other supplies	25 54

Tools at Bridge Shop and Yard:

Blacksmith's anvil, forge and various small tools	49 55
Blocks and tackles	97 50
Boats, 4 skiffs	65 00
Boring apparatus for sinking test wells	50 00
Chains, various sizes	43 25
Derricks, 3 boom, 2 breast, 1 wheel	430 00
Fence barricade, 40 lengths	60 00
Hose and reel	5 00
Two horses, blankets, wagons, harness, buffalo robe	400 00
Ladders	20 00
Lamps and lanterns	33 00
Lumber reach	30 00
Oil tanks, cans, etc	13 00
Patterns for castings	150 00
Pulleys, 1 set differential	10 00
Scales, 1 Fairbanks	18 00
Screws, 2 jack	30 00
Screws, 2 set double beam	30 00
Scows, 2	30 00
Street signs	8 00
Sleigh, complete	35 00
Sounding rod, complete	12 00
Stage hooks	37 00
Tar kettles, etc	8 00
Tool boxes and chest	13 00
Trucks, lumber	25 00
Tub, 1 hoisting	5 00
Wrenches, various sizes	73 62
Various other small tools	387 28
Shop furniture	24 85
	$4,448 81

SEWER DEPARTMENT—CONSTRUCTION.

49 18-inch straight pipe	$62 48	59 8 x 8-inch branches, 2-foot	$30 09
3 18 x 12-inch branches	7 01	386 8 x 6-inch branches	196 86
10 18 x 8-inch branches	23 38	531 6-inch straight pipe, 1-foot lengths	39 83
57 18 x 6-inch branches	133 24	817 6-inch straight pipe, 2-foot	122 55
817 15-inch straight pipe	759 81	237 6 x 6-inch Y branches	80 58
68 15 x 12-inch branches	116 96	39 15-inch bevel connections	54 41
15 15 x 8-inch branches	25 80	48 12-inch bevel connections	45 84
603 15 x 6-inch branches	1,037 16		
1,665 12-inch straight pipe	1,048 95		
23 12 x 12-inch branches	26 91		
4,283 8-inch straight pipe, 2-foot lengths	942 26		

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57 8-inch bevel connections	$19 38
945 6-inch bevel connections, long	321 30
1 chain wrench	2 50
2 chains for truss, heavy	4 00
1 barrel chain	1 00
1 clock, 1 thermometer	1 00
1 derrick gear and pinion	2 50
3 12 x 12-inch Y branches	3 51
25 12 x 8-inch branches	29 25
1,351 12 x 6-inch branches	1,580 67
9 15-inch curved pipe	10 69
25 12-inch curved pipe	21 88
317 8-inch curved pipe	142 65
247 6-inch curved pipe	69 16
138 straight manhole inverts	91 94
6 curved manhole inverts	3 90
4 branch manhole inverts	8 40
89 curved lamphole inverts	57 85
39 manhole frames	117 00
99 manhole covers	222 75
516 manhole steps	82 56
23 box traps	115 00
60 new style traps and hooks	162 00
53 catch basin frames	153 70
102 catch basin covers	137 70
2 large grated covers	6 40
3 large grated covers	6 18
3 12-inch sewer inlets (iron)	$7 95
15 catch-basin throttles	15 00
127 10-inch flagstones	44 45
27 14-inch flagstones	14 85
9 manhole flagstones	13 68
74 catch-basin flagstones	276 02
67 inlet curbstones	351 75
540,000 bricks	3,751 90
Set bits and stock for testing cement	1 40
103 brass plates used in testing cement	8 00
4 hydrant heads	80 00
6 pans used in testing cement	1 45
290 plates used in testing cement	10 00
1,557 6-inch bevel connections, short	350 33
1,842 8-inch invert blocks	736 80
520 4-inch invert blocks	130 00
1 sampler for testing cement	1 00
1 pair scales for testing cement	6 00
1 pair grocers' scales	1 50
1 cross-cut saw	1 00
1 sprinkler hose coupling	2 50
4 sieves for cement testing	3 00
6 trowels	1 50
1 testing machine with moulds	110 00
Total	$14,049 07

Sewer Maintenance.

1 boiler on wheels	$300 00
1 boiler with Westinghouse engine and pump	1,200 00
2 upright boilers on wheels	425 00
1 Westinghouse Junior engine and 5-inch pump complete	465 00
5 derricks, 2 boom and 3 tripods	275 00
1 grindstone	5 00
2 low gears	125 00
7 cart harnesses	$105 00
1 set double harnesses	30 00
1 driving harness	10 00
4 express harnesses	100 00
4 extra collars and hames	6 00
2 sets lead rope harnesses, reins, etc	5 00
8 horses	1,200 00
900 feet 2½-inch rubber hose	575 00
5 hose nozzles and fixtures	8 50
100 feet ¾-inch steam hose	10 00
500 feet 1-inch hose	50 00

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2 hose carts	$200 00	30 picks, 50 stone points, etc	$55 00
12 hose wrenches	4 00	58 trenching braces	48 00
4 hydrant heads	80 00	1 test pump	15 00
Old junk	20 00	1 oscillating engine	100 00
4,000 feet lumber	60 00	2 6-in. Andrews' pumps, 3 pulsometers, suction, etc	575 00
7 spirit levels	7 00	2 pumps	55 00
Lanterns and globes	20 00	Rope, various sizes	60 00
14 ladders	14 84	1 stove	3 00
95 manhole covers, old and new	212 00	30 shovels	9 00
2 grates, 11 small square frames and 7 grates	49 50	7 syphons	90 00
35 pairs rubber boots	87 50	2 sleighs	50 00
20 hoisting buckets	20 00	172 feet rubber, and iron suction pipe	165 00
Coal and oil	15 00	14 tip carts	1,100 00
Office furniture, safe and telephone apparatus	150 00	6 hoisting tubs	20 00
4 basin frames	12 00	12 trowels	4 00
65 new traps	171 00	1 oil tank	5 00
1 Croe trap	4 95	Tools for repairs on sewers and basins	600 00
77 trap covers	46 20	3 express wagons	200 00
60 trap throttles	32 40	Robes, blankets, halters, whips, etc	54 60
19 blocks, 11 one sheave, 7 two sheave, 1 lead	55 00	6 30-inch chute stones	34 50
1 carriage	100 00	8 36- " " "	52 00
8 chains, various sizes	16 00	5 48- " " "	40 00
20 rubber coats	48 00		
100 connecting rods	80 00		

Total $9,734 99

ERNEST STREET SEWAGE PUMPING STATION.

3 vertical, triple-expansion engines, with pumps, boilers, economizer, piping, etc., complete, including tools for same	.....
1 Spencer automatic damper regulator	$150 95
1 Fairbanks platform scales, with turn-table, track and 1-ton coal car	803 00
1 switch-board and electric lighting system complete	510 00
1 4-cage filth-hoist, complete	2,765 00
1 10-ton crane	1,699 00
1 clock	16 00
2 60-gallon oil cans	13 00
Oil cans, measures and funnels, various sizes	4 75
26 gallons cylinder oil	12 50
52 " machine oil	11 40
20 " kerosene oil	1 35
55 lbs. cop waste	3 30
100 feet 1-inch canvas-covered hose	15 00
1 extension ladder	15 00
4 water-height gauges, with floats, drums, weights, etc., complete	50 00

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6 nickel cuspidors	$4 50
8 thermometers	2 50
1 work bench	10 00
2 looking glasses	2 00
18 copper drip-pans	10 00
2 boats, with 2 boat-hooks and 1 pair of oars	20 00
20 wrenches, various kinds and sizes	20 00
32 files	3 00
1 single sheave wheel hoist	1 00
Miscellaneous tools	70 00
50 lbs. garlock packing	37 50
Miscellaneous supplies	48 00
Lumber	7 00
Old junk	2 00
Total	$6,307 75

WATER DEPARTMENT.

At Pipe Yard.

Cast-iron water pipe		1,476,564 pounds at $19.75	$13,018 81
Cast-iron water "		385,040 pounds at $20.50	3,523 80
30-inch branch "	22,437		
24 " " "	13,269		
20 " " "	10,720		
16 " " "	16,802		
12 " " "	13,880		
10 " " "	4,065		
8 " " "	14,545		
6 " " "	11,956		
4 " " "	609		
Blow offs	3,432		
Curved pipe	8,915		
Quarter turns	3,358		
Eighth "	5,978		
Sixteenth "	7,549		
Bevel hubs	6,415		
Sleeves	21,114		
Reducers	6,444		
Gate boxes and covers	36,769		
Caps	8,557		
		216,814 pounds at 2 cents	$4,336 28
24-inch branch pipe	1,466		
12 " curved pipe	1,354		
16 " curved pipe	5,617		
16 " bevel hubs	1,870		
12 " " "	343		
16 " sleeves	3,822		
24 " "	2,913		

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24-inch collars	676	
16 " "	2,122	
12 " "	207	
16 " gate boxes	3,077	
24 " spigot pieces	3,872	
16 " "	15,993	
12 " "	4,187	
8 " hydrant extensions	1,077	
4 " blow-off special	259	
48,855 pounds at 2 cents		$977 10
1 16-inch gates		$81 49
3 12 "		120 60
1 8 "		22 00
15 6 "		225 00
17 4 "		170 00
34 2½ "		170 00
54 6-inch hydrants		4,050 00
56 hydrant boxes and covers		1,120 00
36 hydrant box covers		90 00
8 sprinkler boxes and 13 covers		177 50
8 hydrant bottoms		120 00
2 sets blocks and fall for wheel derrick		25 00
9 lead pots		9 00
154 picks		92 40
130 shovels		19 50
20 bars		14 00
15 hand spikes		7 50
18 striking hammers		13 50
9 hand hammers		4 50
18 sledge hammers		9 00
18 monkey wrenches		7 20
6 hydrant wrenches		9 00
10,170 pounds service boxes		203 40
250 pounds of solder		30 00
39,482 pounds lead pipe for services		1,275 27
67,480 pounds of pig lead		2,955 62
10 baskets charcoal		3 30
3 desks		40 00
6 wrought iron furnaces		36 00
1 safe		4 00
1 letter press		2 00
3 chairs		3 00
3 ink stands		2 00
7 driving mauls		10 50
58 trenching braces		48 00
12 spade forks		3 00
9 clips for making joints		100 00
1 set hydrant tools		10 00
2 jack screws		7 00
1 hydraulic jack		60 00

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3 screws and nuts for 36-inch gate	$65 00
2 iron snow shovels, 1 scoop shovel	1 50
2 pairs calipers for thickness	40 00
1 bonnet valve and screw for 24-inch gate	15 00
1 bonnet valve and screw for 12-inch gate	5 00
1 bonnet valve and screw for 10-inch gate	4 00
8 bonnet valves and screws for 6-inch gate	16 00
4 bonnets and screws	8 00
2 bench vises	5 00
2 hook chains for hoisting pipe	10 00
2 wheel derricks	40 00
4 three-legged derricks	32 00
8 stop wrenches	12 80
11 gate wrenches	33 00
Calking tools and chisels	35 00
Rock drills and wedges	75 00
11 ladles	22 00
9 grubbing axes	3 60
6 narrow axes	2 40
2 pairs chain hooks	3 00
15 paving hammers	5 25
12 paving rammers	12 00
23 rammers, iron	9 20
5 horses	750 00
3 heavy wagons	265 00
1 light express	70 00
2 buggies	125 00
2 pung sleighs	40 00
1 sleigh	20 00
1 set double harness	50 00
4 single harnesses	80 00
4 street blankets	10 00
2 buffalo robes	15 00
1 stove	2 00
73 lanterns and globes	18 25
1 hood for furnace	8 00
2 plumbers' furnaces	1 50
1 kettle for melting lead	75
7 solder moulds, 3 solder pots	2 30
1 plumbers' force pump	3 00
4 galvanized iron pumps	20 00
1 boiler for thawing services	20 00
1 furnace box for street work	2 50
1 gas pipe cutter	4 00
1 die stock and plates	4 00
2 tap and stop wrenches	1 00
2 extension gas tongs	1 00
5 pairs gas tongs	1 25
4 hand saws	3 00
1 cross-cut saw, 1 draw-shave	2 00
2 tapping machines and tools, small	100 00

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2 tapping machines and tools, large	150 00
Dry tapping tools	25 00
Wet tapping tools	100 00
3 tool chests, 3 tool boxes	30 00
6 scoops for tunneling	7 20
1 wrench for righting up stops	1 00
4 poles for setting service boxes	4 00
5 tongs for cleaning boxes	6 00
33 galvanized iron pails	4 00
1 spirit level	1 00
5 sets blocks and falls, small derrick	15 00
1 grindstone	4 00
2 trowels	80
1 set blocks and falls, large	20 00
1 key wrench	2 50
2 large open wrenches	3 00
Taps and stops	1,356 34
25 paving brooms	4 50
11 hydrant valves	165 00
8 valves and screws for 6-inch gate	42 64
1 Fairbanks scale, large	40 00
1 Fairbanks scale, small	5 00
2 diaphragm pumps and suction hose	100 00
8 large hydrant heads	40 00
Total	$37,407 55

Hope Pumping Station.

1 writing table, paper weight, sponge cup, chamois skin, slate and gas fixtures	$10 00
1 clock	25 00
2 settees, 4 spittoons, 3 floor mats	60 00
2 brass trays and 12 oil cans	7 75
6 gauge glasses, 4 screw wrenches, 2 pipe wrenches, 1 pair pipe tongs	14 00
2 60-gallon oil tanks, 5 oil cans	16 00
3 chairs, 2 stools, 4 step ladders	8 00
4 tunnels, 1 brush, 1 desk, 1 ice box, 1 stone jar	4 00
2 chisel bars, 2 wardrobes, 1 grate bar	10 00
3 lamps, 3 lanterns, 15 cold chisels, 1 screw driver	4 00
5 oil measures, 1 pair shears, 1 steel set, 2 drinking cups	2 00
1 bench vise, 1 chain tackle, 50 feet manilla rope	18 00
1 soap can, 1 pipe cutter, 1 set taps and dies, 1 hatchet	9 00
1 grindstone, 2 water pails, 1 scrub brush	2 00
1 sledge hammer, 1 hand hammer, 2 ladders, 1 platform scale	23 00
1 small scale, 3 thermometers, 2 oil barrels, 2 wheelbarrows	17 00
1 set tackle and falls, 1 axe, 4 files, 1 pound paper slips	4 50
3 pressure gauges	60 00
1 Locke damper regular	100 00
20 pounds packing, 45 pounds soap	8 80

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1 box washing powder	$3 85
3 pounds waste, 20 pounds tallow	1 38
25 gallons heavy machinery oil	5 50
35 gallons cylinder oil	12 25
250 tons coal	1,187 50
Total	$1,613 53

Hope Reservoir.

2 flower vases, 2 rain guages	$6 00
1 desk, 1 thermometer, 2 chairs	7 00
1 stool, 1 clock, 1 dark lantern, 1 red globe	3 00
2 lamps and brackets, 1 life preserver	5 00
1 grappling iron and pole, 2 hooks for lifting covers in gate house	2 00
2 gate wrenches, 1 wooden gate cover	10 00
1 carpenter's bench, 3 lawn mowers	5 00
1 wheelbarrow, 2 baskets, 4 brooms, 1 garden roller	10 00
10 scythes, 1 snath, 2 grass hooks, 1 grindstone, 1 wooden pail	6 00
1 iron snow shovel, 1 spade, 1 hammer	1 00
1 pick, 1 hoe, 1 iron bar, 1 stone drill, 1 iron rake	2 00
3 lawn rakes, 1 jack screw, 1 branding iron	3 00
1 spirit plumb, 1 wood saw, 3 knives, 1 pair shears	2 00
1 ice chisel, 1 30-foot pole, 1 stone facing hammer	2 50
1 2-inch chisel, 1 coal hod, 1 pump	3 00
1 ladder, 150 feet 3 x 6-inch clear pine plank	14 00
14 feet ¾-inch brass pipe	2 00
450 feet 1-inch rubber hose	30 00
1 50-ft. tape line	1 50
Total	$115 00

Pettaconset Pumping Station.

1 Andrews' pump and fittings	$100 00
1 Locke damper regulator	100 00
Clocks, wardrobe, and looking glasses	25 00
Desks and letter press	15 00
2 Boston rods	12 00
Bench vise and pipe vise	25 00
Carpenters' and machinists' benches	30 00
Closet for tools	10 00
Carpenters' tools	24 00
Clamps and screws	10 00
Clamps for piston rods	30 00
Common drills, rachets and hand chisels	21 00
Circular saw, with belt shaft and fixtures	15 00
2 derricks	20 00
Forge, anvil, and tools	15 00
Gas tongs and flue brushes	22 00

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1 gravel screen	$1 00
Hand force pump	5 00
Hammers, iron bars, and sledges	10 00
Ice house and tools	10 00
17 ladders, various sizes	66 00
2 jack screws	15 00
2 lawn mowers, shears and sprinkler	5 00
Mowing machine	22 00
Shovels, hoes, and baskets	16 25
Tackle, block and falls, including chain tackle	350 00
Tackle and guy rope, extra large	50 00
Taps and dies	50 00
Taps and dies Worthington engine	7 00
Tools for packing engine	5 00
45 wrenches, various sizes	100 00
Various small tools	20 00
Wheelbarrows, 2 iron, 2 wood	12 00
Lamps, lanterns, and globes	8 00
Oil suits	2 00
2 electric light plants	1,000 00
Electric lamps	1 00
1 motor, Backus	70 00
1 engine lathe complete,	200 00
Scales, 1 hay, 2 platform, 2 small	120 00
Barn, including feed trough, grain bin, etc	1,000 00
Horse, wagon, harnesses, blankets and buffalo robes	175 00
Tip cart and four-wheeled hand truck	35 00
Shed for horses and carriages	200 00
Lumber, blocking, and 1 large wooden horse	13 00
Stand pipe blocking and bolts	50 00
450 pounds chain	22 50
40 " steel	4 00
600 " iron rods	6 00
15,000 " weight box castings	60 00
3,300 " iron road rollers	13 20
Railroad iron	5 00
500 pounds old pig and scrap lead	12 50
Brass bolts for valves	25 00
1,328 pounds link brasses	132 80
1 copper joint	15 00
300 feet 2½-inch fire hose	75 00
200 feet 1-inch and 100 feet ¾-inch hose	20 00
Oil tanks, pumps, and measures	20 00
Oil cans, feeders, cups, and fittings	9 00
55 gallons lubricating oils	19 25
25 pounds cop waste	1 50
Ceylon plumbago and tallow	1 00
Rubber packing	10 00
10 pounds Italian flax packing	2 50
Gas pipe, various sizes	1 50
54 feet 36-inch water pipe	360 00

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12 feet 24-inch water pipe	$40 00
132 " 16 " "	225 00
Drain pipe, bricks, etc	13 50
Coal and wood	200 00
Files, gauge glasses, and glass fittings	15 00
4 valves for Cornish engine	250 00
Valve face plates	8 00
2 vases for lawns	2 00
1 water cooler, 3 water bottles and boat	10 00
1 record case	15 00
1 drinking trough	125 00
Total	$5,811 50

SOCKANOSSET RESERVOIR.

1 grindstone	$4 00
1 wheelbarrow	2 00
2 lawn mowers	2 00
1 gate wrench	8 00
Various small tools	8 00
Total	$24 00

FRUIT HILL RESERVOIR.

2 iron tampers	$2 00
5 shovels	1 25
11 picks and handles	9 00
Mattocks, hoe and iron rake	2 25
2 stone hammers	1 00
2 striking hammers	1 50
2 sledges	2 00
15 drills and 1 hand hammer	5 40
5 steel bars, scythe, snath and whetstones	3 00
2 saws and 1 hatchet	1 50
Gate wrenches	6 00
1 tackle and extra rope	6 75
2 steel tapes	5 00
1 22-foot ladder	2 50
1 lawn mower	2 00
50 feet rubber hose and nozzle	3 00
1 tool box	2 00
1 grindstone	8 00
1 stove	3 00
1 desk	2 00
25 pounds of nails	1 00
Total	$70 15

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Meter Department.

1 water motor, 1 4-foot lathe, 1 grindstone, 2 pressure gauges.	$150 00
1 set counter shaft and pulleys, 2 lathe chucks, 6 lathe tools..	65 00
2 breast drills, 10 files, 3 bench vises, 8 Stillson wrenches....	38 00
5 screw wrenches, 2 service box wrenches, 2 service box cleaners.....	10 00
1 jack screw.....	5 00
1 shears, No. 7.....	2 00
1 tackle.....	6 00
3 hammers, 1 forge, 1 tar kettle, 1 anvil, 1 plumbers' solder pot and furnace.....	60 00
1 iron tank, 1 Fairbank's scale, discs for testing meters.....	126 00
2 die stocks, 6 dies, 2 pipe cutters, 3 taps, 1 solder iron.....	30 00
3 work benches, 1 table, 1 desk, 4 chairs, 2 meter stamps, 1 set figures.....	45 00
1 small lathe, 1 pail.....	10 00
1 tool cupboard, 1 clock.....	8 00
2 horses, 1 top wagon, 1 express wagon.....	525 00
2 harnesses, 2 robes, 2 oil covers, 2 hitch weights, 2 whips, 1 sleigh.....	63 00
5 pounds lead pipe, iron fittings, 25 feet iron pipe	9 00
30 baskets charcoal, 10 pounds cop waste, 3 pounds tallow....	10 68
25 pounds candles, 1 box wax, 1,000 leather packings.....	5 68
400 pounds scrap brass.....	24 00
4 pounds leather, 2 pounds cord.....	2 00
15 pounds rubber packing, 100 yokes, 225 cranks, 40 pounds shafts.....	90 45
100 shaft gears, 50 rolls, 50 pistons, 25 piston connections.....	73 75
45 steam gears, 5 brass nuts, 500 bolts and nuts, 150 sets packings.....	36 05
100 clock gears, 6 dials, 300 screws, 40 linings, 10 valves, 10 clock covers.....	41 50
27 ⅝-inch B. & F. meters.....	364 50
4 ¾-inch B. & F. meters.....	84 00
50 ⅝-inch Crown meters.....	670 00
2 1-inch Crown meters.....	61 80
1 1½-inch Crown meter.....	54 00
1 3-inch Crown meter.....	135 00
58 ⅝-inch pistons, 6 clocks, 10 dials.....	104 50
30 intermediate gears, 104 piston shafts, 26 driving arms.....	67 70
50 driving gears, 15 packing nuts, 200 clock screws, 25 covers, 18 plates.....	16 25
50 ⅝-inch Thomson meters.....	420 00
1 ⅝-inch Tridant meter.....	8 45
2 ¾-inch H. W. Empire meters.....	37 20
3 1-inch H. W. Empire meters	74 70
1 1½-inch H. W. Empire meter.....	45 00
Total.....	$3,579 21

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DEPARTMENT OF PUBLIC WORKS.

SUMMARY.

City Engineer's Department		$5,738 90
Highway Department		55,739 74
Public Bridges Department		4,448 81
Sewer Construction Department		14,049 07
Sewer Maintenance Department		16,042 74
Water Department:		
Pipe yard	$37,407 55	
Hope pumping station	1,613 53	
Hope reservoir	115 00	
Pettaconset pumping station	5,811 50	
Sockanosset reservoir	24 00	
Fruit Hill reservoir	70 15	
Meter department	3,579 21	
		$48,620 94
Total		$144,639 30

General Summary of Personal Property.

Fire Department	$186,721 31
Flags and Staffs	1,075 00
Health Department	2,026 41
Public Lights	29,178 00
Milk Department	2,178 56
North Burial Ground	2,367 20
Plumbing Department	381 50
Police Department	68,299 75
Poor Department	3,215 66
Public Buildings Department	4,408 74
Public Parks Department	37,347 84
Public Schools Department	7,102 95
Weights and Measures	1,077 31
Department of Public Works	144,639 30
Total value of personal property	$490,019 53

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INVENTORY

OF REAL ESTATE BELONGING TO THE CITY OF PROVIDENCE

WATER WORKS.

The official history of a public water supply for the City of Providence began March 21, 1853, at which time the City Council created a committee to examine and report upon the subject. The question was considered by five different committees, and six reports were made thereon between 1853 and 1868. It was also submitted to the taxpayers four times, voted down three times, viz., 1853, 1856, and 1866, and finally in 1868 the plan providing the Pawtuxet river as the source was adopted. Public ceremonies attending the introduction of Pawtuxet water were held Thanksgiving day, November 30, 1871. The first service pipe for consumers was opened December 1, 1871, for the Providence Opera House.

A

Pettaconset Pumping Station.—This station is situated on the Pawtuxet river, about six miles from the City Hall. The lands comprise a portion of the "Aldridge Farm," containing, exclusive of the river, 67.57 acres, all but 406-1000 acres of which lie in Cranston, the remainder being in Warwick. On the farm are three neat one and one-half story cottages, occupied by the superintendent and two pumping engineers, without charge for rent. A temporary engine and boiler-house was erected in 1871, on the bank of the river, in which is a Worthington engine capable of pumping 5,000,000 gallons in twenty-four hours. A permanent fire-proof engine house of Danvers pressed brick and Westerly granite, with slated iron roof, was built in 1873–74, which contains a Cornish engine of a capacity of about 9,000,000 gallons, and a Worthington vertical triple expansion engine with a capacity of 15,000,000 gallons in twenty-four hours. An additional engine house was built near the bank of the river in 1881-82, in which is an engine of about 9,000,000 gallons capacity. Both house and engine were erected by George H. Corliss, and in 1885 a coal-house was added. Two lines of about 950 feet each in length of 36-inch force mains are laid in this tract. A strip of land 50 feet wide and about 380 feet long, also in Cranston, is used as a road from the northerly part of the Aldridge Farm to the Pontiac road. There are about 68.83 acres, including a proposed highway and a small burial lot, in Warwick, bordering upon the river, being portions of the Rhodes and Chace farms.

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Town of Cranston:

Aldridge Farm, about	2,925,663 sq. ft.
Force main line	257,700 sq. ft.
Total about	3,183,363 sq. ft.

Total assessors' valuation of all property in the town of Cranston, including property inventoried under paragraphs marked "B" and "D"	$571,633 00

Town of Warwick:

Rhodes and Chace farms, about	2,988,234 sq. ft.
Aldridge farm, about	17,700 sq. ft.
Total, about	3,005,934 sq. ft.
Assessors' valuation	$6,000 00
Total number of square feet of land at Pettaconset	6,199,297

Force Main Line.—After leaving the "Aldridge Farm" and crossing the Pontiac road under a dry bridge, the lands for the force main lines consist of a strip 100 feet wide and about 1,830 feet long; then of a strip 50 feet wide for about 1,494 feet when the southwesterly line strikes the Sockanosset hill cross-road, and runs along the said road to the so-called New London turnpike, on which last named road the strip measures 26 90-100 feet. The mains cross the turnpike and are laid in the cross-road until within about 200 feet of the reservoir embankment, when they enter the "reservoir lands" and continue in said lands to the inlet chamber.

B

Sockanosset Reservoir Estate.—This estate is on Sockanosset Hill, in the town of Cranston, and contains about 5,571,966 square feet. This estate was purchased from Joseph S. Budlong, December 5, 1870, John C. Harris, *et al.*, December 30, 1870, Stephen B. Gardner, May 3, 1870, and Richard Hill, December 5, 1870, and comprises a farm of 101 acres on the westerly side of the cross-road, as said road was formerly located; a lot of about 3 acres, and a tract of about 13 acres, both on the westerly side of said cross-road, the latter near the inlet chamber of the reservoir; and 12 2,054-10,000 acres on the easterly side of said road. A portion of the old cross-road was declared useless as a public highway, and 50 feet in width of the last named tract was made a road instead. This new road now forms the eastern boundary of most of the reservoir land. A small portion of this tract is embraced in the increased width of the road between the reservoir and the old turnpike. The reservoir covers about 14 acres embracing a portion of the farm and a portion of the old cross-road, a portion of the last named tract, and the whole of the 3-acre lot, and has a capacity of about 51,000,000 gallons. A stone cottage was erected near the inlet chamber, and is occupied by the keeper of the reservoir without charge for rent. Assessors' valuation given in total under paragraph "A."

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LEADING MAIN LINE.—The leading mains, after crossing the narrow border between the outlet chamber and the new cross-road, and after crossing said road, are laid in a new road (since named Reservoir avenue), eighty feet in width and a little more than a mile in length; the pipes crossing the Pocasset river underneath an iron bridge. The new road enters the New London turnpike (now Reservoir avenue), which has been widened to eighty feet and graded to the city line, and from thence, also, as Reservoir avenue, to the New York, Providence and Boston railroad bridge. The pipes are laid in this highway, except for a short distance near the railroad bridge, where they deviate from the street northwesterly and pass under said railroad to avoid the bridge. The line continues through Reservoir and Elmwood avenues to Broad street, in Broad to Winter, through Winter to Westminster, in Westminster to Dean, in Dean to Washington, in Washington to the crossing in Mathewson street, where it is reduced to 24-inch, and continues through Washington street to Exchange place and Exchange place bridge, under which it passes to the east side of the river on iron screw piles, and from the bridge across Canal street; through Steeple street to North Main street, and in North Main northerly to Olney street, up Olney street to Hope pumping station; and southerly in North Main street to Market square, in Market square to College street, in College street to Prospect street, in Prospect to Waterman, and in Waterman street to Thayer street, from which point 30-inch pipes have been laid up Thayer street to the reservoir, connecting with its southeasterly corner. Twenty-four inch pipes are in Waterman street, from Thayer to Governor, uniting at the last named street with a 16-inch line in Governor. The 30-inch line branches at the junction of Elmwood avenue and Public street, and passing through Public, Eddy and Dyer, reduces to a 24-inch at Dorrance, thence continuing in Dyer to Weybosset bridge, under which it passes to the east side of the river on iron screw piles, thence south of the old city building to a connection with the other 24-inch mains in Market square. In 1874 a second line of 30-inch leading mains was laid from Sockanosset reservoir by the side of the first line, to the junction at Elmwood avenue and Public street. Valuation of leading mains, $448,847.

DISTRIBUTION.—In addition to the force main and leading main lines laid as above named, there have been laid of 20-inch pipe, 9,626.59 feet; of 16-inch, 33,810.39 feet; of 12-inch, 87,713.13 feet; of 10-inch, 15,050.47 feet; of 8-inch, 254,767.06 feet; of 6-inch, 1,112,926.81 feet; comprising a total of all sizes, including force and leading mains, of 1,627,424.52 feet, or 308.224 miles. Valuation of distribution mains, $1,545,839.00.

SPECIAL SERVICE FOR FIRE PROTECTION.—Water mains for a special service for fire protection for the business section of the city are laid and supplied with water from Fruit Hill reservoir by connecting at Randall square with the 24-inch pipe leading from the Hope pumping engines to the Fruit Hill reservoir, as follows: of 24-inch, 4,188.58 feet; of 16-inch, 22,961.98 feet; of 12-inch, 2,215.76 feet; total of all sizes, 29,366.32 feet, or 5.561 miles. Eighty-nine hydrants are connected with these mains. Valuation of special service for fire protection, $140,060.00.

C

HOPE RESERVOIR.—This reservoir is located in the city, within the square formed by Olney, Thayer, Barnes and Brown streets. The lands purchased

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and taken comprise about eighteen acres or 806,144 square feet, being lot No. 215 on plat 9. The reservoir has a capacity of about 76,000,000 gallons. At the northwesterly corner of the reservoir lands, on Olney street, stands the high service engine house. This is a fine building of Westerly, Concord and Quincy granites, and Danvers pressed brick, with iron roof partly slated and partly tinned. Two pumping engines have been erected therein, each of a capacity of 5,000,000 gallons in 24 hours—one by the Holley Manufacturing Co. and the other by the Providence Steam Engine Company. Assessors' valuation of land, $161,229; buildings and improvements, $200,000; total, $361,229.

D

WATER PRIVILEGES AND LAND IN PAWTUXET.—The property in the village of Pawtuxet, belonging to the city, was conveyed by the American Wood Paper Company, December 8, 1870, in consideration of the sum of $50,000. It is situated partly in the town of Cranston and partly in the town of Warwick, the river at this place being the dividing line between the said towns, and consists of the water privileges on both sides of the river; the cotton mill estate, with a lot of land about ninety-six feet square, rented to S. R. Green for $50.00 per annum, and Elizabeth Wall for $50.00 per annum; the Randall estate adjoining, containing about nine and one-half acres, all on the Cranston side of the river, rented to the Union Railroad Company for $35.00 per annum; Frank A. Johnson, for $40.00 per annum, and the farm and buildings thereon to George H. Arnold for $300.00 per annum; and two lots or parcels of land adjoining each other on the Warwick side of the river, rented to H. L. Johnson for $87.00 per annum, and George H. Arnold for $75.00 per annum. The wooden cotton mill standing on this property when purchased was destroyed by fire on the evening of January 15, 1875.

Assessors' valuation:

Town of Warwick,	17,400 square feet of land, valued at	$7,000
Town of Cranston,	505,247 " " " "	valuation included in total paragraph "A."
Total	522,647	

E

LAND IN LINCOLN.—This land, consisting of about twenty-two acres or 958,320 square feet, is situated on Olney's Hill, so-called, in the town of Lincoln, and was purchased for the location of a high service reservoir. About fifteen and one-half acres were conveyed to the city by George W. Himes, July 30, 1875, six acres by George W. Olney, August 31, 1875, and about one-half acre by Orin Smith, October 30, 1876. Assessors' valuation, town of Lincoln, $2,100.

F

FRUIT HILL RESERVOIR ESTATE.—This land, containing about 1,323,000 square feet, was purchased for the location of a high-service reservoir to be situated on Fruit Hill, in North Providence, and a road leading thereto, and

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was conveyed to the city as follows: 24 261-1000 acres by Stephen B. Olney, April 8, 1886; 2 484-1000 acres by Thomas H. Smith, June 19, 1886; 1 67-1000 acres by Walter S. Seamans and wife, July 14, 1886; 1 242-1000 acres by Walter W. Whipple, July 26, 1886; 837-1000 acres by Carleton, Norwood & Co., July 23, 1886; and 495-1000 acres by Charles Peckham, July 15, 1886.

The Fruit Hill reservoir has a capacity of about 25,000,000 gallons, and is connected with Hope pumping engines on Olney street by a 24-inch pipe line. This line lies in the following streets and avenues: Olney, Camp, Lippitt, North Main, Stevens, Charles, Ashburton, Webster, Delhi, Chalkstone, Smith and High Service.

The sum of $400 is paid annually for the right to maintain water works in the town of North Providence (see City Council resolutions Nos. 225 and 279, series of 1885).

Valuation of land, $8,000; improvements, $150,000; total, $158,000.

EXPENDITURES.—Total expenditures for the construction and maintenance of the water works to September 30, 1897, inclusive, as shown by the books in the office of the Commissioner of Public Works, was $8,589,775.36. Receipts for rent, labor, material, etc., $828,678.81. Receipts for water supplies, $7,801,030.60. Total receipts, $8,629,709.41. Excess of receipts over expenditures, $39,934.05.

SUMMARY, WATER WORKS.

Area, Square Feet.	Assessors' Valuation.		
	Land.	Buildings and Improvements.	Total.
15,381,374	$755,962 00	$2,484,746 00	$3,240,708 00

MISCELLANEOUS REAL ESTATE.

First Ward.

1

THE CITY BUILDING or "Market House," situated on Market Square, built of brick, three stories high, is leased to the Providence Board of Trade for a term of ten years from January 1, 1890, at $4,000 per annum. This estate, of which no deed is on record, is designated as lot No. 24, on plat 12, and contains 3,460 square feet. Assessors' valuation of land, $51,900; building, $15,000; total $66,900.

The following, in regard to the title of this land, is a copy of a part of an opinion of Benjamin N. Lapham, Esq., City Solicitor, given to the City Council October 11, 1864, as recorded in City Council Records No. 5, for 1863, 1867, pages 210 to 211, in the office of the City Clerk:

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"As I am not able to find on the records any conveyance of the lot, and as it appears to have been, from the earliest time when I can find any reference to it, in the possession of the proprietors of the town and city, and to have been treated and used as land belonging to the proprietors and the town, I have come to the conclusion that the fee simple to this lot was originally in the proprietors of the town, and that it has never been alienated, and that the title of the city is by possession."

The following item of interest was compiled in the office of the Record Commissioners, November 23, 1893, from documents in their possession:

"The first decided steps towards the erection of the Market House was the issuing of the scheme of a lottery, April 28, 1772. At that time a large part of the ground where the building stands was under water. To the northward of it stretched out the Weybosset Bridge, or Great Bridge, as it was then, and is now called; it was twenty-two feet wide, and was located about where the north sidewalk is now, but extending nearly one hundred feet further east. Work was first commenced by filling up the land, which was done under an agreement with John Brown, in September, 1772; towards the close of that year Joseph Andrews built a bank wall around the land thus made. In August, 1773, the west wall of the Market House lot was extended northward to the south side of the bridge and the land between the bridge and the Market House was filled in. The first brick of which the building is constructed was laid in August, 1773. The first stall of which there appears any record, was built in the winter of 1776-7. In 1777 the stalls were disposed of at Public Vendue. Scales for weighing were put in in 1777. A portion of the building was used for a fire engine house in 1779 and for many years after. During the stay of the French troops in Providence, in 1781, the Market House was appropriated to their use. In 1783 the building was refitted. In 1785 an attempt was made to beautify its surroundings by setting trees and posts on the Market House parade (the space to the north and west). Since this time, it has undergone many changes. It was occupied by the offices of the town for many years, and by the city until the erection of the City Hall in 1878."

2

Lot on north side Waterman street, at west end of Red bridge, purchased of the proprietors thereof in 1870, fronting about 86 feet on Waterman street and extending back about 51 feet, being lot No. 340, on plat 15, and containing 1,699 square feet. A brick dwelling house located on this lot is occupied by the keeper of the bridge. Assessors' valuation of land, $255; building, $2,000; total, $2,255.

3

Land on south side of Waterman street at west end of Red bridge, purchased of the proprietors thereof in 1870, fronting about 91 feet on Waterman street and about 43 feet on the Seekonk river, being lot No. 341, on plat 15, and containing 1,864 square feet. Assessors' valuation, $280.

4

Wharf Estate on South Water street, south of, and at the east end of the Point street bridge, being lot No. 2, on plat 18, and containing 5,642

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square feet, purchased in 1870 of the Providence and Worcester Railroad Company. Rented to Frank F. Carpenter for storage of lumber. Assessors' valuation, $5,078.

5

Dock and wharf at foot of James street. The ferry privilege is leased to Charles P. Olney, at $12 per annum. Assessors' valuation not adjusted.

6

Lot on southeast corner of Wickenden and What Cheer streets, being lot No. 552 on plat 17, and containing 4,950 square feet. Assessors' valuation, $1,238. This lot was formerly a part of the Brook street district.

7

Lot on east side of What Cheer street, being lot No. 127 on plat 17, and containing 4,853 square feet. Assessors' valuation, $728. This lot was formerly a part of the Brook street district.

8

Lot on east side of What Cheer street, being lot No. 122 on plat 17, and containing 4,810 square feet. Assessors' valuation, $722. This lot was formerly a part of the Brook street district.

9

Lot on east side of What Cheer street, being lot No. 112 on plat 17, and containing 4,767 square feet. Assessors' valuation, $715. This lot was formerly a part of the Brook street district.

10

Lot on east side of What Cheer street, being lot No. 108 on plat 17, and containing 4,724 square feet. Assessors' valuation, $708. This lot was formerly a part of the Brook street district.

11

Lot on east side or What Cheer street, being lot No. 106 on plat 17, and containing 4,681 square feet. Assessors' valuation, $702. This lot was formerly a part of the Brook street district.

12

Lot on the northeasterly corner of What Cheer and Tockwotton streets, being lot No. 104 on plat 17, and containing, 4,792 square feet. Assessors' valuation, $1,438. This lot was formerly a part of the Brook street district.

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13

LOT on north side of Tockwotton street near What Cheer street, being lot No. 105 on plat 17, and containing 5,322 square feet. Assessors' valuation, $1,331. This lot was formerly a part of the Brook street district.

14

LOT on south side of Wickenden street, near What Cheer street, being lot No. 99 on plat 17, and containing 4,884 square feet. Assessors' valuation, $879. This lot was formerly a part of the Brook street district.

15

LOT on south side of Tockwotton street, extending southerly to India street, being lot No. 156 on plat 17, and containing 56,978 square feet. Assessors' valuation, $8,547. This lot was formerly a part of the Brook street district.

16

LOT on east side of Gano street, and extending to the harbor line, being lot No. 580 on plat 17, and containing 58,650 square feet. Assessors' valuation, $10,557. A part of this lot is rented to Cornell & Haskins, at $25 per annum, and a part to Patrick Donovan, at $8 per month. This lot was formerly a part of the Brook street district.

17

LOT on north side of India street, near the foot of Hope street, being lot No. 289 on plat 18, and containing 8,517 square feet. Assessors' valuation, $2,129. This lot was formerly a part of the Brook street district.

Within this lot is located the "Abbott Lot," conveyed to the Town of Providence, August 1, 1751, by Daniel Abbott, for a watering place forever. It fronts on India street, on which it measures 40 feet, and extends back to Hill street, and contains 1,788 square feet, the same being part of the above measurement of lot No. 289.

BROOK STREET DISTRICT. This district originally comprised land bounded by Traverse street on the west, Wickenden street on the north, and India street on the south, taken by the City of Providence, under an act of the General Assembly, passed at its January session, A. D. 1873, for the purpose of grading and draining the same and other portions of the city.

SECOND WARD.

18

THE DANFORTH LOT (so called), a triangular lot at the junction of Stampers and North Main streets, purchased of Thomas Danforth in January, 1812, being lot No. 201 on plat 3, and containing 1,200 square feet. A fire alarm station was erected on this lot in 1872. Assessors' valuation of land, $720; bell tower, $2,000; total, $2,720.

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19

LOT at the junction of Mill street and Blackstone canal, being lot No.247 on plat 3, and containing 2,340 square feet. This lot was laid out by Edmund Thurber, to and for the use of the town, in November, 1772. Rented to George A. Sayer at $40.00 per annum. Assessors' valuation, $1,521.

20

LOT at the junction of Stampers and Hewes streets, vacant land, formerly part of a street, being lot No. 377 on plat 2, and containing 353 square feet. Assessors' valuation, $88.

21

LOT on Printery street, near Randall street, being lot No. 381 on plat 2, and containing 1,950 square feet. This lot was deeded to the city in 1842 for drainage and highway purposes. Assessors' valuation, $390.

22

LOT on Printery street, being No. 254 on plat 2, and containing 2,053 square feet, bought of John Tulley in 1875, for the purpose of widening Nash lane. Assessors' valuation, $411.

23

LOT on Butler avenue, bought of Richard W. Greene in 1866 for gravel or highway purposes, being lot No. 15 on plat 40, and containing 40,000 square feet. Assessors' valuation, $2,400.

24

LOT on Butler avenue, bought of G. F. Martin and wife in 1885, being lot No. 127 on plat 40, and contains 20,000 square feet. This lot was purchased for gravel for highway purposes. Assessors' valuation, $1,200.

25

THREE-STORY BRICK BUILDING on the easterly side of Canal street, on a portion of land formerly the jail lot, and more recently the Haymarket. This building was formerly occupied by the police of the Central or first district and police courts. It is now partially occupied by the Sealer of Weights and Measures and for evening schools. A barn and shed also upon this lot (being No. 28 on plat 10, and containing 9,642 square feet), is occupied for fire department purposes. "The Old Jail Lot," upon which these buildings stand, was, in 1753, by a vote of the town, set apart from the schoolhouse land to the colony for building a jail. The State, in 1814, purchased from Nicholas Brown a lot adjoining easterly for an addition to the jail estate. In 1839 the State sold the whole to the city. Assessors' valuation of land, $21,694; building, $24,000; total, $45,694.

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26

LAND ON CANAL STREET, included in the location of the Blackstone canal, and excluding the river bed, was formerly a highway, laid out by the town about 1798. Part rented to the New York, New Haven and Hartford Railroad Company at $1.00 per annum, and a part leased to other parties at a nominal rent. (A part of this property is located in the fourth ward.)

27

LOT on northeasterly corner of Cemetery and Collyer streets, taken for the layout of Cemetery street as made by the Board of Aldermen, February 19, 1891, being lot No. 252 on plat 75, and containing 856 square feet. Assessors' valuation, $42.

28

LOT on northwesterly corner of Cemetery and Collyer streets, taken for the layout of Cemetery street as made by the Board of Aldermen, February 19, 1891, being lot No. 253 on plat 75, and containing 1,032 square feet. Assessors' valuation, $62.

29

LOT on southwesterly corner of Cypress and Knowles streets, being lot No. 398 on plat 5; fronting about 47 feet on Cypress street, about 119 feet on Knowles street, and containing 4,428 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $974.

30

LOT on south side of Cypress street, between Knowles and Camp streets, being lot No. 452 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $900.

31

LOT on south side of Cypress street, between Knowles and Camp streets, being lot No. 453 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $900.

32

LOT on south side of Cypress street, between Knowles and Camp streets, being lot No. 454 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $900.

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33

LOT on south side of Cypress street, between Knowles and Camp streets, being lot No. 455 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $900.

34

LOT on south side of Cypress street, between Knowles and Camp streets, being lot No. 456 on plat 5; fronting about 80 feet on Cypress street, extending back 100 feet and having a width in the rear of about 27 feet, and containing 5,391 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $971.

35

LOT on southwesterly corner of Camp and Cypress streets, being lot No. 457 on plat 5; fronting 50 feet on Camp street, about 140 feet on Cypress street, and containing 7,006 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $1,752.

36

LOT on north side of Cypress street, between Camp street and Knowles street, being lot No. 458 on plat 5; fronting 50 feet on Cypress street, extending back about 89 feet, and containing 4,456 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $802.

37

LOT on north side of Cypress street, between Camp street and Knowles street, being lot No. 459 on plat 5; fronting 50 feet on Cypress street, extending back about 89 feet, and containing 4,449 square feet. This lot is part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $801.

38

LOT on north side of Cypress street, between Camp and Knowles streets, being lot No. 460 on plat 5; fronting 50 feet on Cypress street, extending back about 89 feet, and containing 4,431 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $798.

39

LOT on north side of Cypress street, between Camp and Knowles streets, being lot No. 461 on plat 5; fronting 50 feet on Cypress street, extending back about 88 feet, and containing 4,405 square feet. This lot is a part of the Sessions' lot purchased of Thomas Session et al., May, 1805. Assessors' valuation, $793.

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40

LOT on northeasterly corner of Knowles street and Duncan avenue, being lot No. 450 on plat 5; fronting about 67 feet on Duncan avenue, about 19 feet on Knowles street, and containing 6,090 square feet.

The Butler Exchange Co. owns a narrow strip of land about 82 feet long between this lot and Knowles street, thus leaving the city only 19 feet fronting on said Knowles street. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $914.

41

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 449 on plat 5; fronting 50 feet on Duncan avenue, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $750.

42

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 448 on plat 5; fronting 50 feet on Duncan avenue, extending back 100 feet and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $750.

43

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 447 on plat 5; fronting 50 feet on Duncan avenue, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $750.

44

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 446 on plat 5; fronting 50 feet on Duncan avenue, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $750.

45

LOT on north side of Duncan avenue, between Knowles and Camp streets being lot No. 445 on plat 5; fronting 50 feet on Duncan avenue, extending back 100 feet, and containing 5,000 square feet. This lot is a part of the Sessions' lot purchased of Thomas Sessions et al., May, 1805. Assessors' valuation, $750.

The Sessions' Lot, so called, was purchased of Thomas Sessions and others, in May, 1805, and originally bounded westerly on North Main street and extending easterly to Camp street. The Camp street primary school house is located on a part of the original purchase. (See description of Camp street primary school house and lot, included in the second district of the school estates.)

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THIRD WARD.

46

LOT on east side of Charles street, near Smith street, and extending back to the Blackstone canal, being lot No. 292 on plat 3, and containing 3,325 square feet. Leased to J. H. & J. B. Sweet for a term of five years from October 1, 1895, at $72 per annum, with taxes and assessments. Assessors' valuation, $2,327. This lot was originally a part of the Workhouse lands, so-called.

47

LAND at the junction of Charles and Back streets, being lot No. 283 on plat 3, and containing 2,350 square feet. Assessors' valuation, $1,880. This land is a part of Back street, as laid out by the Board of Aldermen, March 15, 1848, by the following resolution, as recorded in street book, No. 2, pages 67 and 68:

"*Resolved*, That the plat this day presented to the Board be and the same is hereby directed to be recorded, and that the northeasterly line of Back street be as follows: beginning on the west side of Charles street at a point 106½ feet from the corner of the Canal Bleaching Company's land, thence at right angles with Charles street, 42 feet, thence on a curve of 29½ feet radius, 30 feet; thence a straight line parallel with the railroad and 40 feet therefrom until it intersects Back street, and that all the land included in the triangular space between the railroad and Charles street and the line before described be, and the same is hereby included in Back street, provided it shall be lawful for the city to enclose for ornamental purposes any part of said triangular space not required for travel."

This lot comprises a part of what was formerly known as the Work-house lands, and includes land remaining to the town after a grant to John Smith, in 1646, of "land in the valley where his house stands, for erecting a grist-mill, etc." In 1754 the boundaries of the grant were more clearly defined and platted for Elisha Brown. In 1798, Charles street was laid out over these lands, and in 1833 an exchange was made with Dexter Angell and others, the town selling them all their lands west of Back street, and receiving therefor a piece adjoining the Work-house lot on the north, between Charles street and the river. In 1847, a portion of the lot was sold to the Providence and Worcester Railroad Company for the location of their road. The town purchased of David Burt, in 1848, a small triangular piece at the northwest corner of the lot, in order to settle the north line then in dispute.

48

LOT at the junction of Charles and Stevens streets, bought of Sayles Walling in 1866, being lot No. 157 on plat 3, and containing 2,380 square feet. Rented to John Burns at $75 per annum. Assessors' valuation, $1,190.

49

LOT at junction of Charles street and Mill street bridge, being lot No. 297 on plat 3, and containing 1,997 square feet. Rented to James Hanley, at $60 per annum. Assessors' valuation, $1,598.

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50

EIGHTEEN gravel lots on Silver Spring street, bought of Henry J. Angell in 1866, measuring 352 feet on Metcalf street, and running back 160 feet on Grafton street to Silver Spring street, on which it measures 392 feet, being lots Nos. 292 to 309 inclusive, on plat 72, and containing 59,504 square feet. Assessors' valuation, $3,134.

51

FOURTEEN lots on Hawkins street, gravel land received from the Town of North Providence in 1874, measuring 213 feet on Hawkins street and 261 feet on McMillan street, being lots Nos. 238 to 251 inclusive on plat 71, and containing 74,944 square feet. Assessors' valuation, $2,846.

52

THIRTEEN gravel lots on Hall street; eleven lots bought of Samuel Hedley, December 15, 1873, for $3,517.84, and two lots bought of Philip B. Stiness, April 9, 1884, for $842.50; measuring about 530 feet on Hall street by 100 feet deep, being lots Nos. 30 to 42, inclusive, on plat 72, and containing 52,398 square feet. Assessors' valuation, $1,656.

53

GRAVEL lots on Northup avenue, bought for highway purposes, December 31, 1886, of Israel B. Mason, being lots Nos. 481 and 482 on plat 72. Lot No. 482 measures about 197 feet on Northup avenue, and extends southerly about 255 feet on Chatham street and 180 feet on Parley street and contains 34,829 square feet. Lot No. 481 measures about 53 feet on Northup avenue, and extends southerly about 162 feet on Parley street and 156 feet on Luna street, and contains 9,358 square feet. Assessors' valuation of both lots, $1,419.

54

GRAVEL lot on Northup avenue, bought for highway purposes, December 30, 1887, of Andrew J. Smith and David F. Goff, and cost $1,388.30. This lot measures about 165 feet on Chatham street, about 189 feet on Northup avenue, and about 265 feet on Flora street, being lot No. 483 on plat 72, and containing 34,816 square feet. Assessors' valuation $1,044.

55

LOT on Ledge and Gillen streets, east of Charles street, purchased for school purposes of Bernard McGuinness, January 4, 1894, for $1,700. This lot measures about 108 feet on Ledge and Gillen streets, extends back about 152 feet on the west line and about 143 feet on the east line, being lot 152 on plat 71, and containing 16,000 square feet. Assessors' valuation, $800.

FOURTH WARD.

56

A STRIP OF LAND about 800 feet long on the north side of Cove street, between Gaspee street and the general passenger station, containing about

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7,900 square feet. This land was formerly occupied as a part of Cove street, and is leased to the New York, New Haven and Hartford Railroad Company at $25 per annum, under authority of chapter CCXXV of the ordinances approved July 7, 1883. This strip of land is not shown on the assessors' plat.

57

LOT on the northwesterly corner of Harris avenue and Kinsley avenue, measuring about 332 feet on Harris avenue, and about 394 feet on Kinsley avenue, being lot No. 21 on plat 19, and containing 35,376 square feet. This lot was formerly included in the description of the Cove lands. See City Auditor's report for 1892. Assessors' valuation, $33,607.

58

LOT between Kinsley avenue and Harris avenue, measuring about 180 feet on Harris avenue and about 211 feet on Kinsley avenue; being lot No. 319 on plat 26, and containing 49,431 square feet. This lot was formerly included in the description of the Cove Lands. See City Auditor's report for 1892. Assessors' valuation, $39,545.

59

LOT between Francis street and Gaspee street, located between Cove street and the proposed approach to the new depot, being lot No. 13 on plat 19, and containing 29,600 square feet. Part of this lot was originally a part of the Cove Promenade, as described in the City Auditor's report for 1892, and was deeded to the city in 1893, by the New York and New England Railroad, as part payment for land exchanged for railroad purposes. Most of the remainder was purchased from the Old Colony and other railroad companies by deed dated May 2, 1892. Assessors' valuation, $118,400, and of bell tower located on or near this lot, $2,000.

60

TRACT on the north side of Exchange place, between Exchange place and the proposed depot, and between Francis street and the Woonasquatucket river, being lot No. 7, on plat 19, containing 150,800 square feet. Valuation of land, $603,200; building, $75,000; total, $678,200. Part of this tract was formerly within the Cove Basin, a part was used as the old Cove Promenade, and the remainder, including the present passenger station, was purchased of the Old Colony and other railroad companies by deed dated May 2, 1892.

61

LOT on east side of Francis street, bounded by Francis, Gaspee and Stillman streets, measuring about 409 feet on Francis street, about 104 feet on Gaspee street, and about 425 feet on Stillman street, being lot No. 24 on plat 19, containing 43,800 square feet. Assessors' valuation of land, $65,700; buildings, $1,500; total, $67,200. A small corner of this lot was purchased

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of the Old Colony and other railroad companies by deed dated May 2, 1892, and the remainder was formerly included within the Cove Basin. This lot is now occupied as a charity wood yard.

62

TRIANGLE on west side of Francis street, bounded by Francis, Gaspee and Promenade streets, measuring about 335 feet on Francis street, about 394 feet on Gaspee street, and about 386 feet on Promenade street, being lot No. 25 on plat 19, containing 67,009 square feet. Assessors' valuation, $100,514. This lot was formerly included within the Cove Basin.

63

LOT on the east side of Gaspee street, bounded on the north by the Woonasquatucket river, on which it measures about 420 feet, on the east by Francis street, on which it measures about 70 feet, on the south by Railroad street, on which it measures about 320 feet, and on the west by Gaspee street, on which it measures about 285 feet, being lot No. 26 on plat 19, containing 58,840 square feet. Assessors' valuation, $102,970.

The following is a description of the Cove Lands, exclusive of the Cove Basin and Cove Promenade, before the exchanges were made, in 1893, with the Providence Land and Wharf Company and the New York and New England Railroad Company:

THATCH Rights in the upper Cove, formerly flowed by tide water, being on the south side of the channel of the Woonasquatucket river, nearly opposite the foundry of the Brown & Sharpe Manufacturing Company. (For description of old boundary lines, see City Auditor's report, 1886, page 110.)

Said rights were bought of Elisha Olney in 1824, and of Smith Olney, Joanna Barnes and William N. Rhodes, in 1825, being lot No. 21 on plat 19, and containing 390,492 square feet, as per City Auditor's Report for 1892.

LAND IN THE UPPER COVE, filled by the city in the winter of 1857, being lots Nos. 12 and 20 on plat 19, and containing 533,682 square feet, as per City Auditor's report for 1892.

The lines of the Cove, or "movable waters," were established by a committee in June, 1797. The marks of the former boundaries having been removed by a storm in 1815, a street defining the line of the public waters in the Cove was laid out in 1825. In June, 1845, the Providence and Worcester Railroad Company made an application to be allowed to fill a portion of this land for railroad purposes only. Authority having been given to the town by an act of the General Assembly, as also to the city by a special act passed in 1845, permission was given to the railroad company by resolution passed February, 1846, according to a plan then adopted and allowing for laying out necessary highways over said land. In September, 1847, similar permission was granted the New York, Providence and Boston Railroad Company, as by resolution and plan.

At the January session of the General Assembly, A. D. 1870, a resolution was passed instructing the General Treasurer of the State to execute a conveyance to the city of all right, title and interest that the State had in and

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to the Cove Lands (so called), in said city, being the lands now or heretofore flowed by the tide water above Weybosset Bridge, whenever the city shall pay to the State the sum of $200,000 in a satisfactory bond payable in five years, without interest. In accordance with this vote the City of Providence executed its bond to the State for the above sum, which was paid May 14, 1875.

Under authority of Chapter 722 of the Public Laws, passed May 31, 1888, and City Council resolution No. 292, approved June 19, 1888, retaining walls, etc., for the Woonasquatucket and Moshassuck rivers have been constructed through the Cove Basin, and the basin filled with earth. The total cost of this work was $384,206.07, of which amount the city received of the railroad companies for extra work increasing strength of walls under their location, $39,973.03, and for other sundry items, $866.51, leaving the net cost to the city of this work $343,366.53. The balance of the amount authorized to be expended in filling Cove Basin was, under authority of Chapter 1,235 of the Public Laws, passed March 22, 1893, and orders of the City Council, used as follows: Francis street bridge, $71,910.83; building Promenade street from Railroad bridge to Gaspee street, $17,413.21; building Gaspee street, from Cove to Promenade street, $11,729.10; and on account of Promenade street bridge, $5,580.28.

FIFTH WARD.

64

LOT on east side of Dyer street at the foot of Peck street (supposed a continuation of said street), being lot No. 102 on plat 20, and containing 907 square feet. Assessors' valuation, $1,814.

SIXTH WARD.

65

THE FIELD'S POINT FARM, being lot No. 256 on plat 56, and containing 1,642,142 square feet. This farm was purchased of George Field in April, 1825; John H. Clark's interest purchased in June, 1825; Chloe Field's dower purchased in May, 1833; a portion of this farm is occupied by the small-pox hospital, and a part leased to Seager S. Atwell for a term of five years from January 1, 1892, and eight years from January 1, 1897, at $500 per annum. Assessors' valuation of land, $16,421; buildings, $5,000; total, $21,421.

66

LOT No. 148, plat 55, on Thurber's avenue, bought in 1869 of William and John Halkyard, for the purpose of opening and extending the avenue to the harbor line. Lot measures 171 feet on the avenue, and contains 7,168 square feet. Assessors' valuation, $287.

67

LOT at end of Welcome avenue, between Richardson street and Logan avenue, purchased of John Donahue, December 22, 1880, for highway purposes, being lot No. 196 on plat 54, measuring 50 feet by 45 feet, containing 2,250 square feet. Assessors' valuation, $135.

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68

LOT on north side of Logan avenue, between Prairie avenue and Ocean street, purchased of George L. Claflin, September 11, 1873, being lot No. 682 on plat 54, measuring 50 feet on Logan avenue, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $625.

69

LOT on north side of Logan avenue, between Prairie avenue and Ocean street, purchased of George L. Claflin, September 11, 1873, being lot No. 683 on plat 54, measuring 50 feet on Logan avenue, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $625.

70

LOT on north side of Logan avenue, between Prairie avenue and Ocean street, purchased of George L. Claflin, September 11, 1873, being lot No. 684 on plat 54, measuring 50 feet on Logan avenue, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $625.

71

LOT on north side of Logan avenue, near Ocean street, purchased of Nancy M. Cole, November 8, 1873, being lot No. 685 on plat 54, measuring 50 feet on Logan avenue, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $625.

72

LOT on south side of Richardson street, near Ocean street, purchased of Nancy M. Cole, November 8, 1873, being lot No. 718 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $500.

73

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of George L. Claflin, September 11, 1873, being lot No. 719 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $500.

74

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of George L. Claflin, September 11, 1873, being lot No. 720 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $500.

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75

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of George L. Claflin, September 11, 1873, being lot No. 721 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $500.

76

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of Thomas P. Cole and wife, December 1, 1886, being lot No. 735 on plat 54, measuring 125 feet on Richardson street and extending back about 124 feet, containing 15,534 square feet. Assessors' valuation, $1,243.

77

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of Thomas P. Cole and wife, October 6, 1874, being lot No. 738 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $500.

78

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of Thomas P. Cole and wife, October 6, 1874, being lot No. 739 on plat 54, measuring 50 feet on Richardson street and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $500.

79

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of John H. Livingston, January 18, 1881, being lot No. 740 on plat 54, measuring 50 feet on Richardson street and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, $500.

80

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of James McCabe and wife, April 23, 1884, being lot No. 741 on plat 54, measuring 50 feet on Richardson street, extending back 125 feet, and containing 6,250 square feet. Assessors' valuation, $500.

81

LOT on north side of Richardson street, near Ocean street, purchased of Charles H. Lewis, July 28, 1874, being lot No. 742 on plat 54, measuring 50 feet on Richardson street, extending back about 125 feet and containing 6,250 square feet. Assessors' valuation, $500.

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82

LOT on north side of Richardson street, near Ocean street, purchased of Leon Allison, December 2, 1885, being lot No. 743 on plat 54, measuring 50 feet on Richardson street, extending back about 125 feet, and containing 6,250 square feet. Assessors' valuation, $500.

83

LOT on Richardson street, near the corner of Ocean street, purchased of Leon Allison, December 2, 1885, being lot No. 744 on plat 54, measuring 50 feet on Richardson street, extending back about 125 feet, and containing 6,250 square feet. Assessors' valuation, $500.

84

LOT on north side of Welcome avenue, purchased of Rufus Sprague, November 6, 1875, being lot No. 848 on plat 54, measuring 77 feet on Welcome avenue, extending back 57 feet, and containing 4,389 square feet. Assessors' valuation, $351.

85

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of Ezra Hutchins April 28, 1876, being lot No. 722 on plat 54, measuring 50 feet on Richardson street, extending back 125 feet, and containing 6,250 square feet. Assessors' valuation, $500.

86

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of Elizabeth Reilly September 10, 1875, being lot No. 723 on plat 54, measuring 50 feet on Richardson street, extending back 68 feet, and containing 3,400 square feet. Assessors' valuation, $340.

87

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of Elizabeth Reilly September 10, 1875, being lot No. 724 on plat 54, measuring 50 feet on Richardson street, extending back 68 feet, and containing 3,400 square feet. Assessors' valuation, $340.

88

LOT on south side of Pennsylvania avenue, purchased of Edwin A. Taft November 17, 1873, being lot No. 170 on plat 53, measuring 50 feet on said avenue, extending back 90 feet and containing 4,500 square feet. Assessors' valuation, $720.

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89

WHARF LOT near Old Maid's Cove, bought of the New York, Providence and Boston Railroad Company January 14, 1888, for $5,115.25, for the location of a wharf for improved sewerage purposes; being lot No. 424 on plat 55, and contains 138,250 square feet. This lot is flowed by tide water, and is not valued by the Assessors.

90

ONE HUNDRED AND FIFTY-SEVEN HOUSE LOTS at Bold Water Point, near Field's Point, for improved sewerage purposes, purchased as follows: Of John A. Thompkins, January 12, 1888, for $2,000; of Thomas J. Hill, February 9, 1888, for $9,597.78; of Lizzie M., Florence B. and Alice M. Dike, May 4, 1888, for $4,300.65; of Olive G. Temple, August 17, 1888, for $350; and of William H. Potter, September 3, 1888, for $10,500; together with all water rights and all streets accompanying the same; now numbered as lots Nos. 1, 210 and 243 on plat 56, and containing 782,202 square feet. Assessors' valuation, $7,845.

91

TWO LOTS on west side of Eddy street, between Aldrich and Cass streets, purchased of Lorenzo D. Millard July 31, 1890, for improved sewerage purposes, and cost $2,950.50; being lots Nos. 384 and 385 on plat 54, and containing 11,760 square feet. Assessors' valuation, $705.

92

TWO LOTS on northeast corner of Aldrich and Plain streets, purchased of Frederick A. Fairbrother June 22, 1889, for improved sewerage purposes, and cost $963.73, being lots Nos. 451 and 452 on plat 54, and containing 10,600 square feet. Assessors' valuation, $636.

93

LOT on south side of Aldrich street, between Plain and Eddy streets, purchased of the heirs of Ephraim B. Moulton June 18, 1889, for improved sewerage purposes, and cost $500, being lot No. 443 on plat 54, and containing 5,000 square feet. Assessors' valuation, $300.

94

LOT on south side of Aldrich street, between Plain and Eddy streets, purchased of Samuel A. Wesson May 17, 1889, for improved sewerage purposes, and cost $600, being lot No. 442 on plat 54, and containing 5,700 square feet. Assessors' valuation, $285.

95

LOT on south side of Aldrich street, between Plain and Eddy streets, purchased of the West Side Company May 18, 1889, for improved sewerage purposes, and cost $500, being lot No. 441 on plat 54, and containing 5,400 square feet. Assessors' valuation, $270.

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96

Two Lots on south side of Aldrich street, between Plain and Eddy streets, purchased of Julia A. Edwards, June 24, 1889, for improved sewerage purposes, and cost $1,000, being lots Nos. 439 and 440 on plat 54, and containing 9,930 square feet. Assessors' valuation, $497.

97

Lot on northwest corner of Aldrich and Plain streets, purchased of the heirs of John Mullen October 9, 1889, for improved sewerage purposes, and cost $735.81. This lot fronts 40 feet on Aldrich street and 108.74 feet on Plain street, being lot No. 453 on plat 54, and containing 6,131.79 square feet. Assessors' valuation, $368.

98

Lot on southeast corner of Ocean and Colwell streets, purchased of Mary Kelly and others February 8, 1889, for the extension of Ocean street, being lot No. 658 on plat 54, and containing 5,366 square feet. Assessors' valuation, $537.

99

Lot on the northeast corner of Ocean and Joy streets, purchased of Mary Kelly and others, February 8, 1889, for the extension of Ocean street, being lot No. 642 on plat 54, and containing 5,245 square feet. Assessors' valuation, $420.

100

Lot on southwest corner of Ocean and Colwell streets, purchased of Mary Kelly and others, February 8, 1889, for the extension of Ocean street, being lot No. 659 on plat 54, and containing 1,233 square feet. Assessors' valuation, $185.

101

Lot on northwest corner of Ocean and Joy streets, purchased of Mary Kelly and others, February 8, 1889, for the extension of Ocean street, being lot No. 641 on plat 54, and containing 1,507 square feet. Assessors' valuation, $151.

102

Lot on northwest corner of Ocean and Richardson streets, bought of William N. Landerkin, November 16, 1889, for gravel for highway purposes, and cost $65. This lot is 125 feet long and about ten inches wide at the north end, and forty inches wide at the south end, and contains 259 square feet, being lot No. 745 on plat 54. Assessors' valuation, $65.

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103

Two Lots on south side of Byfield street, near foot of Ocean street, purchased of Elizabeth A. Gammell, October 13, 1890, for improved sewerage purposes, and cost $2,500, being lots Nos. 483 and 484 on plat 54, and containing 10,000 square feet. Assessors' valuation, $600.

104

Lot on southwest corner of Ocean and Joy streets, purchased of Ames H. Hobart, January 23, 1889, for the extension of Ocean street, being lot No. 612 on plat 54, and containing 936 square feet. Assessors' valuation, $94.

105

Lot on southeast corner of Ocean and Joy streets, purchased of Ames H. Hobart, January 23, 1889, for the extension of Ocean street, being lot No. 613 on plat 54, and containing 1,805 square feet. Assessors' valuation, $162.

106

A Strip of land about 1,640 feet long, lying on the west side of the track of the New York, Providence and Boston Railroad Company, south of Reservoir avenue, being lot No. 317 on plat 61, and containing 39,030 square feet. This land was bought for improved sewerage purposes and purchased as follows: Of Francis W. Miner, April 22, 1889, for $2,000; Thomas M. Rounds, April 22, 1889, for $613, and Francis W. Miner, May 23, 1891, for $1,000. Assessors' valuation, $1,171.

107

Triangular lot on east side of Reservoir avenue at its intersection with the track of the New York, Providence and Boston Railroad Company, being lot No. 12 on plat 61, and containing 3,040 square feet. This lot was purchased of Joseph C. Smith and Adelaide M. Smith, January 17, 1891, for improved sewerage purposes, and cost $364.80. Assessors' valuation, $182.

Eighth Ward.

108

Lot on Burgess street, measuring about 91 by 100 feet, being No. 205 on plat 29, and containing 9,165 square feet. This lot was purchased of the Roger Williams Church, in August, 1855. Rented to Daniel W. Goodspeed at $275 per annum. Assessors' valuation, $3,208.

Ninth Ward.

109

Lot on north side of West Exchange street, west of Tefft street, included in the settlement for $4,250.25, with Joseph W. Padelford, November 19,

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1887, of his appeal from the award of the Commissioners upon the layout of West Exchange street, being lot No. 512 on plat 28, and containing 10 square feet. Assessors' valuation, $5.

TENTH WARD.

110

GRAVEL LOT on Smith street, bought of Albert L. Andrews in December, 1881, for highway purposes, for $1,518, being lot No. 17 on plat 85, and containing 145,604 square feet. Assessors' valuation, $728. A part of the original purchase is now located on the west side of Mount Pleasant avenue, by reason of the layout of said avenue through the lot in 1888.

111

GRAVEL LOT on Mount Pleasant avenue, the same being a small part of the Smith street gravel lot bought of Albert L. Andrews in December, 1881, for highway purposes, and is located on the west side of the new extension of Mount Pleasant avenue by reason of the layout of said avenue in 1888, being lot No. 20 on plat 85, and contains 3,936 square feet. Assessors' valuation, $39.

112

GRAVEL RIGHT on Fruit Hill, received from the Town of North Providence in 1874, measuring 58 feet on the Old Powder Mill road, extending back about 56 feet, being lot No. 15 on plat 85, and containing 3,321 square feet. Assessors' valuation, $20. (The Auditor is advised that this is a burial lot.)

113

TWO LOTS on Clara street, bought of Harris J. Farnum and wife, November 16, 1892, for improved sewerage purposes, and cost $500; being lots Nos. 172 and 173 on plat 69, and containing 6,400 square feet. Assessors' valuation, $192.

114

TWO LOTS on Clara street, bought of Charles W. Farnum and wife, November 11, 1892, for improved sewerage purposes, and cost $500; being lots Nos. 174 and 175 on plat 69, and containing 6,400 square feet. Assessors' valuation, $192.

115

TWO LOTS on Clara street, bought of Smith S. Sweet, October 20, 1892, for improved sewerage purposes, and cost $500; being lots Nos. 176 and 177 on plat 69, and containing 6,400 square feet. Assessors' valuation, $224.

116

LOT on Clara street, bought of Jesse B. Sweet, October 20, 1892, for improved sewerage purposes, and cost $250; being lot No. 178 on plat 69, and containing 3,200 square feet. Assessors' valuation, $128.

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117

Two Lots on Danforth street, bought of Ellen L. Colwell, November 16, 1892, for improved sewerage purposes, and cost $500; being lots Nos. 191 and 192 on plat 69, and containing 6,400 square feet. Assessors' valuation, $192.

118

Lot on Danforth street, bought of Adah L. Steere, November 16, 1892, for improved sewerage purposes, and cost $250; being lot 193 on plat 69, and containing 3,200 square feet. Assessors' valuation, $96.

119

East Providence.

Cranberry Island, so called, a bold, rocky ledge on the line of the Providence, Warren and Bristol Railroad, north of Squantum, being about 100 feet wide and 400 feet long, and containing 31,200 square feet. Purchased of Arba B. Dike and others, October 26, 1872, for highway purposes, and cost $1,500. At low tide this island can be reached from the railroad. Assessors' valuation, Town of East Providence, $500.

SUMMARY, MISCELLANEOUS REAL ESTATE.

Divisions.	Area, Square Feet.	Assessors' Valuation.		
		Land.	Buildings.	Total.
Ward 1.....	180,593	$87,207 00	$17,000 00	$104,207 00
Ward 2.....	165,082	43,683 00	26,000 00	69,683 00
Ward 3.....	291,901	17,894 00	.....	17,894 00
Ward 4.....	442,756	1,063,936 00	78,500 00	1,142,436 00
Ward 5.....	907	1,814 00	.....	1,814 00
Ward 6.....	1,342,950	26,858 00	5,000 00	31,858 00
Ward 7.....	42,070	1,353 00	.....	1,353 00
Ward 8.....	9,165	3,208 00	.....	3,208 00
Ward 9.....	10	5 00	.....	5 00
Ward 10.....	184,861	1,811 00	.....	1,811 00
East Providence	31,200	500 00	.....	500 00
Totals.....	2,691,495	$1,248,269 00	$126,500 00	$1,374,769 00

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MISCELLANEOUS PUBLIC BUILDINGS, ETC.

1

THE CITY HALL, built of Westerly and New Hampshire granite, three stories and basements, with mansard roof and thoroughly fire.proof, is located upon land bounded by Dorrance, Washington, Eddy and Fulton streets; lot measuring about 171 by 188 feet, being No. 38 on plat 20, and containing 32,390 square feet. The corner stone was laid on the 24th day of June, 1875, and the building dedicated on the 14th day of November, 1878. The cost of the building furnished was $1,066,987.80.

This lot formerly belonging to the heirs of Elisha Dyer, Anson W. and Alfred K. Aldrich, to Thomas Brown and the heirs of Job Carpenter, was purchased by the city by sundry deeds dated from June 1, 1854, to July 6, 1857, some of said owners giving bonds to secure the city against any further claims by their heirs and assigns. Assessors' valuation of land, $323,900; building, $800,000; total, $1,123,900.

2

CITY YARD AND WHARF on Henderson street, extending from Eddy street to the harbor line, being lot No. 240, plat 22, and lots Nos. 18 and 498, plat 46, aggregating 511,904 square feet. Allen's avenue crosses this property between lots 238, plat 22, and lot 498, plat 46. On this property the city has built a two story brick barn, a two-story brick workshop for the Public Works Department, a three-story brick building for the Public Buildings and Public Lights Department, a brick building for the Health Department used for disinfectant purposes, a two-story wood building for Bridge Department, a two-story wood building for Water Department, and a number of smaller wood buildings and sheds for use of the various city departments. By agreement a dock has been laid out 600 feet deep and about 105 feet wide for the mutual advantage of the city and Mrs. Nancy K. Bishop. Assessors' valuation of land, $190,972; buildings, $56,000; total, $246,972.

3

ERNEST STREET SEWAGE PUMPING STATION, on the north side of Ernest street, east of Allen's avenue, being lots Nos. 4 on plat 101 and 34 on plat 57, and contains 1,342,950 square feet. On lot 4, plat 101, stand the brick buildings containing three Vertical Triple Expansion Sewage Pumping Engines and four Babcock and Wilcox Water Tube Steam Boilers. Assessors' valuation of land, $26,858; buildings and improvements, $200,000; total, $226,858.

4

THE NORTH BURIAL GROUND, containing 5,501,538 square feet, is situated on Sexton, North Main, and Cemetery streets, Branch and Smithfield avenues, and Boston and Providence Railroad, being lots No. 1, 2, 3, 4, 5, and 6, on plat 1, and lot No. 1, on plat 75, and is under the care, control, and direction of the Commissioners of the North Burial Ground. The buildings

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thereon, belonging to the city, are occupied in part by the Superintendent, and others rented for the benefit of the ground. In 1700, land was set apart for a training-field, burying-ground, and other public purposes by the town, and is now included in the present North Burial Ground. In 1796, the town purchased about eight acres from Moses Brown on the west side of the grounds. In 1846, the north line of the ground was straightened, and a lot was purchased of William Randall, on the west side of the grounds, with the privilege of laying pipes to the Moshassuck river. In 1847, a lot was purchased of Samuel Whelden, on the Smithfield turnpike, and, in the same year, a lot adjoining was purchased of James Caffrey. In September, 1854, a deed was received from Thomas Harkness of a piece of land on the Smithfield turnpike, and conveyed to the Monthly Meeting of Friends for a burial ground. In 1866, the city purchased of the heirs of William Randall, the farm adjoining on the north, containing about forty acres; also a strip of land on the east, of John Carter Brown, carrying the boundary line to the Pawtucket turnpike. In 1870, the city purchased of William Corliss a lot of land adjoining on the northwest, containing about twenty acres, with the buildings and improvements thereon. In 1876, a lot of land with a dwelling house, situated on North Main street, was purchased of Alice Gannon; also a lot of land situated on Sexton street, of Nathaniel S. Mowry. October 15, 1891, the city purchased of Mary Miller, of Philadelphia, widow of Barton Miller, lot No. 4, on plat No. 1, with buildings and improvements, and lot No. 1 on plat 75, both containing 199,644 square feet, together with all her rights in lots Nos. 5 and 6, for the sum of $9,000 under authority of chapter CCLXXXVI of the ordinances, approved December 1, 1890. In 1883, a one-story stone building was erected near the main entrance for office purposes, at a cost of $3,000. In 1893–94, a pavilion was erected at the north end of Ridge Side Lake, at an expense of $963.46. Assessors' valuation of land, $295,860; buildings, $17,200; total, $313,060.

5

WASHINGTON BRIDGE ESTATE. This estate was conveyed to the city by the Providence Washington Bridge Company in November, 1860, in accordance with an act of the General Assembly, passed at the January session, A. D. 1859.

It now comprises:

Land on the east side of the Seekonk river, being the easterly approach or causeway leading to the old Washington bridge, the balance of the original estate having been sold.

6

LOT at the junction of Beacon avenue, Pine and Friendship streets, being No. 215 on plat 24, and containing 3,120 square feet. This lot was deeded to the Town of Providence by Daniel and Benjamin Field in July, 1814, to be added to and form a part of the street forever. Assessors' valuation, $3,120.

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SUMMARY.

Area, Square Feet.	Assessors' Valuation.		
	Land.	Buildings.	Total.
7,391,902	$840,710 00	$1,073,200 00	$1,913,910 00

PARKS AND SQUARES.

1

Roger Williams Square, laid out on the plat of the What Cheer estate, being lot No. 295 on plat 17, measuring 200 feet square and containing 40,000 square feet. Situated between Power and Williams streets, near the "Slate Rock," and dedicated as and for a public park by the heirs of Governor James Fenner. This square was dedicated for public park purposes and named under authority of City Council resolution No. 397, approved June 27, 1893. Under authority of City Council resolution No. 244, approved May 16, 1878, a portion of slate rock was raised to grade and enclosed in an iron fence at an expense of $491.08. Assessors' valuation, $6,000.

Tradition says that "Williams and his associates first landed on 'Slate Rock' on the bank of the Seekonk river near the residence of His Excellency Governor Fenner, and that as they approached the shore they were saluted with 'What cheer, netop,' by an Indian from the hill." That there is some foundation for the tradition appears from the fact that a tract of land adjoining this rock has ever since borne the name of "What Cheer." Under this name it was assigned to Mr. Williams in the first division of lands among the settlers. It has also been handed down by tradition that Mr. Williams and his companions, after exchanging salutations with the Indians, pursued their voyage around Fox Point and up Providence river to a point a little south of St. John's Church.

See "Annals of Providence," page 21.

2

Tockwotton Park. This park is located within the square bounded by Wickenden, East, Tockwotton and What Cheer streets, being lot No. 2 on plat 17, and containing 155,765 square feet.

This park occupies the site of the old "Reform School Estate," formerly the "Tockwotton hotel estate," and was a part of the Brook Street District. A part of this tract of land was established as a public park in accordance with City Council resolution No. 372, approved August 8, 1888, under authority granted by Chapter 680 of the Public Laws, passed March 23, 1888, and the balance, containing 5,301 square feet, located at the corner of Wickenden and East streets, and belonging to Daniel Gorman, was condemned for park purposes in accordance with City Council resolution No. 526, approved Sep-

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tember 8, 1890, under authority of Chapter 876 of the Public Laws passed March 11, 1890. The sum of $9,439.70 was paid to Daniel Gorman, May 7, 1891, on an execution from the Supreme Court, for his land and dwelling house located thereon. The dwelling house was sold by the city, July 2, 1891, for the sum of $2,600. The sum of $5,000 was expended in 1889 and 1890 for the construction of this park. The pavilion located in this park was built in 1893 and cost $1,050. Assessors' valuation of land, $38,941; building, $800; total, $39,741.

3

WASHINGTON SQUARE, between India, Benefit, Tockwotton and Traverse streets, measuring about 261 feet on Benefit street by 150 on Tockwotton street, being lot 135 on plat 18, and containing 39,052 square feet. This square was laid out on the plat of the Fox Point Association lands as a public square in 1816, to be kept open forever as a public square, according to the terms of the deed from Fox Point Association. A deed of the proprietor's interest in said square, in common with other owners, was received from Thomas Thompson in April, 1830. A part of this lot was condemned in 1884, for a new location for the tracks of the Providence, Warren and Bristol railroad. Assessors' valuation, $13,668.

4

FENNER PARK, at the junction of Governor and Williams streets, being lot No. 234 on plat 17, and containing 1,752 square feet. This parcel of land was taken for park purposes under authority of chapter 998 of the Public Laws, passed May 29, 1891, and City Council resolution No. 732, approved November 20, 1891. Dedicated for public park purposes and named under authority of City Council resolution No. 279, approved May 18, 1894. A description of this park is recorded in the office of the Recorder of Deeds, in book for deeds, No. 338, at page 354. Assessors' valuation, $613.

5

BLACKSTONE PARK, situated on Butler, Grand and Rhode Island avenues, Angell street and Seekonk river. Part of this land was presented to the city for a public park by William P. Vaughan and Moses B. Jenkins in 1886, the remainder has been acquired by purchase, being lots 14 to 19 inclusive, 39 to 60 inclusive, 62 to 81 inclusive, 123 to 133 inclusive, 135, 136, 138 to 141 inclusive, 145 to 148 inclusive, 150 to 152 inclusive, 240, 242, 247 and 252 on plat 41, containing 1,241,071 square feet. Assessors' valuation of land, $58,334. The small frame building standing on this land is the property of the Narragansett Boat Club.

6

PROSPECT TERRACE, on Congdon, opposite Cushing street, being lot No. 215 on plat 10, and containing about 12,033 square feet. This lot was purchased by the citizens of the second ward, and presented to the city in 1869, to be kept open as a public park. The retaining wall was rebuilt in 1888-1889 at an expense of $11,676.47. Assessors' valuation, $6,016.

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7

"ADMIRAL HOPKINS PARK," so named under authority of chapter CCCLXXII. of the ordinances, approved February 12, 1892, is situated between Branch avenue, Charles and Hawkins streets, formerly known as the Hopkins Burial Ground, was taken by the City of Providence for the purpose of a public park, pursuant to the provisions of chapter 946 of the Public Laws, passed by the General Assembly, March 24, 1891, and City Council resolution No. 421, approved July 7, 1891. A description of this land, signed by the Mayor, is recorded in the office of the Recorder of Deeds, in book No. 366, at page 412.

This land was received from the Town of North Providence in 1874, being lot No. 139 on plat 71, and containing 48,590 square feet. Assessors' valuation, $6,317.

8

FRANKLIN SQUARE, on Federal Hill, situated at the corner of Bradford street and Atwells avenue, measuring 150 feet on Atwells avenue, by 152 feet on Bradford street, being lot No. 66 on plat 26, and containing 22,914 square feet. This lot was conveyed to the Town of Providence in 1808 by Amos M. Atwell and others, to be occupied and improved by said town "for some public purpose or purposes, and for no other use or purpose whatever." Assessors' valuation, $11,457.

9

THE ABBOTT PARK, located on Weybosset, near Chestnut street, being lot No. 481 on plat 24, and containing 7,800 square feet, was conveyed by Daniel Abbott in 1746, to a committee of the Beneficent Congregational Society, "for public use, passing and repassing, training, and the like, always to be kept free from any building forever, or any other encumbrance, to the prejudice of the public forever." A large and beautiful fountain was located upon the center of this lot in 1873. This fountain, being the first established for the benefit of the public, was presented by William H. Charnley and others, and accepted by the city June 14, 1875, and placed in charge of the joint committee on parks. Assessors' valuation, $25,350.

10

THE TRIANGULAR PARK, at the junction of Hospital and Eddy streets, being lot No. 208 on plat 22, and containing 1,120 square feet. Assessors' valuation, $896.

11

THE TRIANGULAR PARK, at the junction of Bassett, Elm and Hoppin streets, being lot No. 64 on plat 21, and containing 1,370 square feet. This park is located in "Hoppin Square," so named by the Board of Aldermen, June 4, 1891. Assessors' valuation, $822.

12

HAYWARD PARK, situated between Friendship, Maple and Plain streets and Beacon avenue, formerly the proprietors' burial ground. A part of this park was taken by the City of Providence for the purpose of a public park,

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pursuant to the provision of chapter 431 of the Public Laws, passed May 2, A. D. 1884, and City Council resolution No, 236, approved June 2, 1884. The awards were made by the Supreme Court for the lands taken for this park amounted to $1,199.46, and were paid in 1887. A description of the condemned land, signed by the Mayor, is recorded in the office of the Recorder of Deeds, in book 327, page 339. September 28, 1892, under authority of City Council resolution No. 436, approved July 12, 1892, 26,682 feet of land fronting on Maple street were purchased of Beriah Wall and Thomas Boyd, Jr., for the sum of $22,000. This tract of land was added to and made a part of the park under authority of City Council resolution, No. 639, approved October 8, 1892. The large and beautiful fountain located upon the centre of this park was the gift of ex-Mayor William S. Hayward, in whose honor the park was named, and was accepted by the city September 11, 1889. This park was established under authority of chapter CXLVIII. of the ordinances approved December 26, 1888, being lot No. 1, on plat 21, and containing 115,349 square feet. In 1888-1889 the sum of $293.95 was expended for the removal of bodies to the North Burial Ground, and $97.80 for the expense of erecting a monument at the North Burial Ground. The amount expended in 1889-90 for the construction of this park was $6,244.20. Assessors' valuation of land, $57,675.

13

COLUMBUS PARK, at junction of Elmwood and Reservoir avenues, measuring 200 feet on Elmwood avenue, 227 feet on Reservoir avenue, and 109 feet on Atlantic street, being lot No. 20 on plat 52, and containing 9,123 square feet. This lot was deeded to the Town of Cranston for a public park by Joseph J. Cooke, May 24, 1864, and was received from the Town of Cranston in 1868. This park was named and dedicated for public park purposes under authority of City Council resolution No. 509, approved September 12, 1893. The bronze statue of Columbus located in this park, a gift from citizens, was cast by the Gorham Manufacturing Company, from designs made by Auguste Bartholdi, and was presented to the city with appropriate ceremonies November 8, 1893. Assessors' valuation of land, $4,105.

14

ROGER WILLIAMS PARK. This park contains about 18,579,945 square feet, or 426.54 acres, being lot No. 1 on plat 90. About 4,431,014 square feet of land on which is the old red house, now called the Betsey Williams Cottage, which was built by Nathaniel Williams about the year 1773, for his son James, father of Betsey, were devised to the City of Providence, by the will of Betsey Williams, who died in November, 1871; the remainder was acquired by purchase and condemnation, excepting about 8,285 square feet, conveyed as a gift to the city by John M. and Susan P. Clemens, December 19, 1880. A monument after plans by Franklin Simmons of Rome, Italy, consisting of a bronze statue of Roger Williams upon a granite base, was erected in this park in 1876-77 by the City of Providence at a cost of about $22,000. A barn and deer park were constructed in 1890-91, near the northerly line of the park, at a cost of $10,973.13; a menagerie building was erected in 1890-91 at a cost of $10,903; a museum building was erected in 1894-95 at a cost of $40,528.40; and a Casino was under construction in 1896-97. Assessors' valuation of land, $743,198; buildings, $57,000; total, $800,198.

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This park also contains 16,080 square feet of land condemned for park purposes under authority of an act of the General Assembly, being lots No. 364, 365, 317, 318 and 319 on plat 59. Assessors' valuation, $480; also lot at outlet of Mashapaug pond west of Reservoir avenue, bought of Daniel N. Perrin, et al., January 3, 1896, to control the supply of water flowing into the lakes at Roger Williams Park, being lot No. 311, on plat 61, containing 34,097 square feet. Assessors' valuation, $511.

15

ARNOLD SQUARE, included between Allston, Bryant and Regent streets and River avenue, was deeded to the city by the West Providence Land Co., for park purposes only. The deed for this square was recorded March 26, 1889, in the office of the Recorder of Deeds, in book No. 350, at page 157, but has never been accepted by the City Council. This square contains 38,950 square feet, being lot No. 187 on plat 65. Assessors' valuation, $3,895.

16

DAVIS PARK. This park was purchased from Thomas Davis, May 27, 1891, for the sum of $75,000, under authority of chapter 873 of the Public Laws, passed by the General Assembly, April 25, 1890, and chapter CCLVI of the city ordinances, passed July 2, 1890. Bonds to the amount of $75,000, bearing interest at the rate of four per cent. per annum, were issued to cover the cost of this purchase, and are due July 1, 1909. The sum of $3,000 is annually appropriated by the City Council as a sinking fund to meet these bonds when due.

This estate was dedicated as a public park under authority of City Council resolution No. 760, series of 1891, and was named "Davis Park" under authority of chapter CCCLXXI of the city ordinances, approved February 12, 1892.

This estate extends from Chalkstone avenue, on which it measures about 643 feet, to Valley street, on which it measures about 824 feet; being lot No. 222 on plat 66, and contains 1,483,871 square feet, or about 34 acres. Assessors' valuation of land, $44,516; buildings, $20,000; total, $64,516.

This park also contains 197,722 square feet of land on Chalkstone avenue, purchased during 1897, being lots Nos. 225, 226, 227, 228 and 231 on plat 66, This purchase extends the eastern limit of the park to Raymond street. Assessors' valuation of land, $10,374; buildings, $4,400; total, $14,774.

SUMMARY OF PARKS.

Area, Square Feet.	Assessors' Valuation.		
	Land.	Buildings and Improvements.	Total.
22,046,604	$1,033,168 00	$82,200 00	$1,115,368 00

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PUBLIC SCHOOL ESTATES.

First Ward.

Name of School.	Assessors' Plat No.	Assessors' Lot No.	Area of Lot square feet.	Cost. Land.	Cost. Buildings.	Assessors' Valuation. Land.	Assessors' Valuation. Buildings.	Assessors' Valuation. Total.	Remarks.
Thayer St. Grammar...	12	435	24,566	$11,920 00	$96,290 83	$12,283 00	$40,000 00	$52,283 00	Brick building, 3 stories and French roof, built in 1866-7.
Arnold St. Primary....	16	312	17,568	.....	.....	6,149 00	25,000 00	31,149 00	Brick building, 3 stories, built in 1839-40; altered and improved in 1893-4 at an expense of $26,568.38.
East St. Primary	17	176	9,666	.....	.....	2,899 00	7,500 00	10,399 00	Wood building, 3 stories, built in 1841.
Manning St. Primary..	14	20	10,000	.....	.....	2,800 00	13,000 00	15,800 00	Wood building, 1 story, built in 1875-6; altered and improved in 1893-4 at an expense of $10,234.16.
Ives St.....	14	396	13,293	3,750 00	.....	3,664 00	.....	3,664 00	Lot purchased in 1897.....

Second Ward.

Name of School.	Assessors' Plat No.	Assessors' Lot No.	Area of Lot square feet.	Cost. Land.	Cost. Buildings.	Assessors' Valuation. Land.	Assessors' Valuation. Buildings.	Assessors' Valuation. Total.	Remarks.
Doyle Ave. Grammar..	8	77	10,047	.....	.....	$1,507 00	$65,000 00	$66,507 00	Brick building, 3 stories, built in 1875-76 upon land leased of the Dexter Donation, viz.: lot 225, containing 23,567 sq. ft., plat 8. A six-room addition was built in 1893-94 at a cost of $34,915.20. Lot 77 is in addition to land leased.

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Benefit St. Primary....	9	168	23,420	.....	.....	$14,052 00	$32,000 00	$46,052 00	Brick building, 3 stories, built in 1839-40; re-constructed in 1893-94 at an expense of $27,983.83. A portion of this estate has been used for school purposes since 1768, see City Auditor's report for 1895, page 254.
Camp St. Primary.....	5	192	17,186	.....	13,107 95	4,297 00	8,600 00	12,897 00	Wood building, 2 stories, built in 1884-85.
Graham St. Primary...	5	180	12,029	.....	.....	1,083 00	8,000 00	9,083 00	Brick building, 2 stories.
Meeting Street	10	75	7,454	.....	.....	7,454 00	1,500 00	8,954 00	Brick building, 2 stories occupied for cooking school and evening school. Land conveyed to the town in 1776 for the erection of a school house, and for no other purpose.
Montague St. Primary	8	155	20,658	7,232 16	....	3,561 00	....	3,561 00	Brick building now under construction
Thayer St. Primary....	10	302	12,308	.....	.....	3,692 00	6,000 00	9,692 00	Wood building, 2 stories, built in 1886.
Slater Ave. Primary...	39	179	15,000	2,500 00	13,072 85	1,800 00	10,000 00	11,800 00	Wood building, 4 rooms, built in 1890.
Highland Ave. Primary	91	225	15,000	1,500 00	13,240 55	600 00	10,000 00	10,600 00	Wood building, 4 rooms, built in 1890.
East Side High.....	11	52	49,300	19,720 00	.....	17,255 00	.....	17,255 00	Erection of brick building now progressing.

THIRD WARD.

State St. Primary.....	3	347	10,885	.. ..	$12,890 89	$3,048 00	$10,000 00	$13,048 00	Wood building, 4 rooms, built in 1892-94.
Candace St. Grammar.	68	597	25,973	.....	70,933 81	8,311 00	60,000 00	68,311 00	Brick building; old part built in 1876, addition built in 1891-93.
Old Branch Ave. Grammar..... / Branch Ave. Primary	71	296	25,730	.....	.....	3,859 00	3,500 00	7,359 00	Wood building received from the Town of North Providence in 1874. "Town House" erected by North Providence on an adjoining lot, was moved to this lot in 1889 and fitted for primary school purposes.

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THIRD WARD—(*Continued.*)

Name of School.	Assessors' Plat No.	Assessors' Lot No.	Area of Lot square feet.	Cost. Land.	Cost. Buildings.	Assessors' Valuation. Land.	Assessors' Valuation. Buildings.	Assessors' Valuation. Total.	Remarks.
Chalkstone Ave. Primary	68	741	15,318	.....	.....	$3,830 00	$5,000 00	$8,830 00	Wood build ng received from North Providence in 1874.
Veazie St. Primary	102	170	19,608	$1,500 00	$20,927 56	784 00	15,000 00	15,784 00	Wood building, 6 rooms, built in 1888.
Branch Ave. Grammar.	72	426	24,489	4,897 80	46,314 44	2,939 00	40,000 00	42,939 00	Brick building, 8 rooms, built in 1891-2.
Charles St. Primary	2	64	26,960	9,000 00	49,355 27	8,088 00	42,000 00	50,088 00	Brick building, 8 rooms, built in 1891-2.
Greeley St. Primary	71	47	19,200	2,250 00	26,174 65	1,536 00	22,000 00	23,536 00	Brick building, 4 rooms, built in 1895-6.

FOURTH WARD.

Bourn St. Primary	26	39	14,760	.....	.....	$8,856 00	$10,000 00	$18,856 00	Wood building, 4 rooms, being the old Sabin street primary school building removed to this location and reconstructed.
Beacon Avenue	24	313	5,800	.....	.....	3,480 00	2,000 00	5,480 00	Wood building, 2 stories, occupied for kindergarten and cooking schools. The German School Society occupies two rooms at a yearly rental of $25.
Manual Training High.	24	200	14,677	$14,588 50	$116,512 51	8,806 00	90,000 00	98,806 00	Brick building, 3 stories and basement, containing twenty-seven rooms, a hall, store, apparatus rooms, etc.; completed in 1893-94.
Classical High	24	17	32,188	88,692 34	.....	20,922 00	.....	20,922 00	Brick building nearly completed.

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Fifth Ward.

Point St. Grammar....	22	1	43,325	$70,495 81	$133,804 38	$13,864 00	$60,000 00	$73,864 00	Brick building, 2 stories and French roof, built in 1873-4.
Elm St. Primary.....	21	96	14,647	.....	.....	8,055 00	20,000 00	28,055 00	Brick building, 2 stories, built in 1839-40. Reconstructed in 1893-94 at an expense of $17,360.72.
Hospital Street.....	22	200	5,758	.....	.....	1,898 00	8,000 00	9,898 00	Brick building, 3 stories, used for evening schools.
Somerset St. Primary..	23	523	14,819	5,186 65	14,007 04	5,187 00	12,000 00	17,187 00	Wood building, 2 stories, built in 1886.
Friendship Street Primary.....	23	161	15,200	....	.....	6,840 00	16,000 00	22,840 00	Brick building, 2 stories. Reconstructed in 1893-4, at an expense of $16,517.83.
Beacon Ave. Primary..	23	586	15,460	8,749 70	29,099 98	5,411 00	25,000 00	30,411 00	Brick building, 6 rooms, built in 1891-92.

Sixth Ward.

Oxford St. Grammar...	48	82	23,760	.....	$48,158 20	$4,277 00	$38,000 00	$42,277 00	Brick building, 3 stories, built in 1876-7.
Public St. Primary.....	45	424	16,096	.....	.....	3,863 00	4,000 00	7,863 00	Wood building, two stories.
Eddy St. Primary.....	47	763	12,529	....	13,515 51	3,132 00	10,000 00	13,132 00	Wood building, 4 rooms, completed in 1893-4.
Thurbers Ave. Primary.....	54	297	34,434	.....	.....	7,575 00	15,000 00	22,575 00	Brick building, 2 stories, built in 1872-3.
Chester Ave. Primary..	45	469	10,995	....	9,348 26	2,199 00	7,000 00	9,199 00	Wood building, built in 1880-1.
Aldrich St. Primary....	54	435	13,300	.....	4,814 78	931 00	3,200 00	4,131 00	Wood building, built in 1876.
Harriet St. Primary....	48	568	12,800	$3,840 00	12,299 69	2,304 00	8,400 00	10,704 00	Wood building, built in 1884-5.
Plain St. Primary.....	48	176	12,800	4,000 00	12,400 00	2,560 00	8,400 00	10,960 00	Wood building, built in 1884-5.
Peace St. Grammar....	44	245	22,619	8,000 00	62,660 72	7,917 00	50,000 00	57,917 00	Brick building, built in 1888-9.

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SIXTH WARD—(*Continued.*)

Name of School.	Assessors' Plat No.	Assessors' Lot No.	Area of Lot square feet.	Cost. Land.	Cost. Buildings.	Assessors' Valuation. Land.	Assessors' Valuation. Buildings.	Assessors' Valuation. Total.	Remarks.
California Ave. Primary	87	186	19,200	.....	$13,865 35	$1,920 00	$10,000 00	$11,920 00	Wood building, built in 1894-95.
Willard Ave. Primary.	45	109	10,237	$2,303 22	14,263 13	1,638 00	10,000 00	11,638 00	Wood building, built in 1894-95.
Broad St. Grammar	58	458	35,970	9,931 66	.....	8,993 00	.....	8,993 00	Brick building, nearly completed.

SEVENTH WARD

Warren St. Primary	30	309	15,200	.....	.....	$4,864 00	$7,000 00	$11,864 00	Wood building, 2 stories.
Jackson Ave. Primary.	50	440	19,200	.....	$17,500 00	2,112 00	11,000 00	13,112 00	Brick building, 2 stories, built in 1874.
Bellevue Ave. Primary.	31	309	12,133	.....	12,868 98	2,427 00	10,000 00	12,427 00	Wood building, 2 stories, built in 1886.
Vineyard St. Grammar	49	344	27,600	$8,444 00	51,128 63	4,968 00	40,000 00	44,968 00	Brick building, 2 stories and hall, built in 1882-3.
Elmwood Ave. Primary	49	364	25,281	.....	.....	12,640 00	15,000 00	27,640 00	Wood building, 2 stories, reconstructed in 1893-4 at a cost of $15,408.87.
Potter Ave. Primary	43	510	25,289	.....	.....	5,564 00	35,000 00	40,564 00	Brick building, 2 stories, built in 1869. A four room addition constructed in 1895-6 cost $29,999.08.
Niagara St. Primary	52	182	15,000	3,750 00	12,802 27	3,600 00	10,000 00	13,600 00	Wood building, 4 rooms, completed in 1893-4.
Roger Williams Ave. Primary	88	120	19,000	.....	14,452 80	2,660 00	10,000 00	12,660 00	Wood building, 4 rooms, built in 1894-5.

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Eighth Ward.

English High School..	29	259	38,905	$58,974 63	$159,938 22	$25,288 00	$86,300 00	$111,588 00	Brick building, 3 stories, erected in 1877-8. Accommodates 900 pupils.
Summer St. Primary...	29	258	12,196	.....	30,000 00	9,147 00	20,000 00	29,147 00	Brick building, erected in 1875.
Bridgham Grammar...	32	335	27,216	.....	.....	10,886 00	35,000 00	45,886 00	Brick building, 4 stories, containing fourteen rooms and a hall.
Hammond St. Primary.	32	292	.....	.....	.....	.....	10,000 00	10,000 00	Brick building, 3 stories, built on land leased of the Dexter Donation.
Willow St. Primary....	35	170	18,323	.....	35,000 00	5,947 00	18,000 00	23,497 00	Brick building, 2 stories, built in 1874.
Almy St. Primary.....	32	104	16,696	11,269 80	13,274 88	8,348 00	10,000 00	18,348 00	Wood building, 4 rooms, completed in 1893-4.
Messer St. Grammar...	36	181	19,841	6,837 93	68,195 71	4,960 00	55,000 00	59,960 00	Brick building, 12 rooms, completed in 1893.
Union Ave. Primary...	42	79	18,537	4,022 26	22,656 20	3,151 00	22,000 00	25,151 00	Brick building, 4 rooms, completed in 1896.
Harrison St.....	32	270	.....	.....	.....	.....	10,000 00	10,000 00	Brick building, 2 stories, for school and ward room purposes, on land leased of the Dexter Donation, completed in 1896.

Ninth Ward.

Federal St. Grammar..	28	310	36,014	.....	$96,137 02	$13,325 00	$65,000 00	$78,325 00	Grammar building, built of brick, 4 stories, in 1869-70. Primary building built of wood in 1894-5.
Federal St. Primary....	28	310	.....	.....	12,993 84				
Carpenter St. Primary.	28	30	15,203	.....	12,191 94	8,362 00	10,000 00	18,362 00	Wood building, 4 rooms, completed in 1893-4.
Harris Ave. Primary...	33	282	20,230	.....	13,839 71	2,428 00	10,000 00	12,428 00	Wood building, 4 rooms, completed in 1893-4.
Ring St. Primary.....	33	35	12,000	.....	.....	3,600 00	16,000 00	19,600 00	Brick building, 2 stories. Reconstructed in 1893-4 at an expense of $16,504.08.

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NINTH WARD—(*Continued*).

NAME OF SCHOOL.	Assessors' Plat No.	Assessors' Lot No.	Area of Lot square feet.	Cost. Land.	Cost. Buildings.	Assessors' Valuation. Land.	Assessors' Valuation. Buildings.	Assessors' Valuation. Total.	REMARKS.
Africa St. Primary.....	28	804	11,307	.....	$9,540 65	$3,392 00	$8,000 00	$11,392 00	Wood building, built in 1880-1.
Atwells Ave. Primary..	28	359	15,276	$15,000 00	25,539 47	6,569 00	20,000 00	26,569 00	Brick building, 2 stories, 6 rooms, built in 1887-8.
Courtland St. Primary.	33	138	19,730	9,865 20	25,514 51	3,354 00	22,000 00	25,354 00	Brick building, 4 rooms, completed in 1896.

TENTH WARD.

Berlin St. Primary.....	65	379	14,553	$2,002 33	$10,700 00	$1,746 00	$8,000 00	$9,746 00	Wood building, 2 stories, built in 1883.
Putnam St. Primary...	62	57	26,296	.....	.....	5,785 00	8,000 00	13,785 00	Brick building, 2 stories, received from North Providence in 1874.
Academy Ave. Grammar.....	64	519	32,765	6,650 00	68,760 81	5,898 00	55,000 00	60,898 00	Brick building, 12 rooms, built in 1890.
Manton Ave. Primary..	80	14	22,545	.....	.....	2,255 00	1,600 00	3,855 00	Wood building, 2 stories, received from North Providence in 1874.
Julian St. Primary.....	62	371	10,871	.....	11,003 95	2,718 00	18,000 00	20,718 00	Wood building, 2 stories, built in 1875. Reconstructed in 1893-4 at a cost of $14,967.91.
Admiral St. Primary...	70	590	12,100	.....	4,578 84	363 00	3,200 00	3,563 00	Wood building, erected in 1876.
Amherst St. Primary..	63	60	13,631	.....	9,265 48	2,999 00	7,000 00	9,999 00	Wood building, 2 stories, built in 1880.

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Smith St. Primary.....	67	44	28,825	.....	$32,000 00	$5,189 00	$23,000 00	$28,189 00	Brick building, 2 stories, 6 rooms, built in 1884-5.
Mt. Pleasant Ave. Primary.....	64	1	18,228	$4,205 00	.....	912 00	....	912 00	Brick building, now under construction.
Covell St. Primary.....	63	142	16,203	.....	14,908 73	3,565 00	12,000 00	15,565 00	Wood building, 2 stories, built in 1886.
River Ave. Primary....	66	106	21,000	2,520 00	13,236 07	1,680 00	10,500 00	12,180 00	Wood building, 4 rooms, built in 1891-2.
Sisson St. Grammar....	95	62	16,009	4,000 00	13,227 91	2,561 00	10,000 00	12,561 00	Wood building, 4 rooms, built in 1893-4.
Ruggles St. Primary...	69	36	14,733	3,800 00	21,789 67	1,031 00	22,000 00	23,031 00	Brick building, 4 rooms, completed in 1896.
Hendrick St. Primary..	64	434	15,496	3,409 12	27,660 48	1,860 00	22,000 00	23,860 00	Brick building, 4 rooms, completed in 1896.

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SUMMARY, PUBLIC SCHOOL ESTATES.

Wards.	Area, Square Feet.	Assessors' Valuation.		
		Land.	Buildings.	Total.
First.....	75,093	$27,795 00	$85,500 00	$113,295 00
Second.....	182,402	55,301 00	141,100 00	196,401 00
Third.....	168,163	32,395 00	197,500 00	229,895 00
Fourth.....	67,425	42,064 00	102,000 00	144,064 00
Fifth.....	109,204	41,255 00	141,000 00	182,255 00
Sixth.....	224,740	47,309 00	164,000 00	211,309 00
Seventh.....	158,703	38,835 00	138,000 00	176,835 00
Eighth.....	151,714	67,277 00	266,300 00	333,577 00
Ninth.....	129,760	41,030 00	151,000 00	192,030 00
Tenth.....	263,250	38,562 00	200,300 00	238,862 00
Total.....	1,530,454	$431,823 00	$1,586,700 00	$2,018,523 00

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FIRE STATIONS.

Company.	Location.	Assessors' Plat No.	Assessors' Lot No.	Area square feet.	Assessors' Valuation. Land.	Buildings.	Total.	Remarks.
No. 1. Hose, Hook and Ladder No. 1, Water Tower	Exchange place	19	6	7,321	$21,963 00	$16,000 00	$37,963 00	Iron building erected in 1875 at a cost of $25,000.
No. 2. Engine	South Main street	16	32	5,617	4,494 00	13,000 00	17,494 00	Brick building, built in 1891-2 and cost $15,005.58.
No. 3. Hose	Pond street	24	155	5,589	3,353 00	9,000 00	12,353 00	Brick building, built in 1874-5 and cost $6,500. Part of this lot is rented to A. A. Hopkins & Co., at $100 per annum.
No. 4. Engine	Mill street	3	238	3,550	2,485 00	15,000 00	17,485 00	Brick building built in 1883, and cost $15,000.
No. 5. Engine, Hook and Ladder No. 7	Olney street	8	426	6,780	2,373 00	15,000 00	17,373 00	Brick building, built in 1891-2 and cost $17,332.25.
No. 6. Hose, Chemical No. 2	Benevolent street	13	129	4,569	2,285 00	7,000 00	9,285 00	Brick building, built in 1866.
No. 7. Hose, Chemical No. 1, Protective No. 1	Richmond street	20	357	5,808	5,808 00	18,000 00	23,808 00	Brick building, built in 1866 and enlarged in 1890-1.
No. 8. Engine, Hook and Ladder No. 2	Harrison street	32	272	.....	.....	25,000 00	25,000 00	Brick building, erected in 1866, with an addition built in 1889-90, on land leased of the Dexter Donation.
No. 9. Hose, Hook and Ladder No. 6	Atwells avenue and America street	28	226	6,126	3,676 00	19,500 00	23,176 00	Brick building, erected in 1884-5 and cost $23,000. The part located on America street is used for evening schools.

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FIRE STATIONS—(*Continued.*)

Company.	Location.	Assessors' Plat No.	Assessors' Lot No.	Area square feet.	Assessors' Valuation. Land.	Buildings.	Total.	Remarks.
No. 10. Engine	Burnside street	48	476	7,886	$1,814 00	$4,000 00	$5,814 00	Wood building erected in 1872.
No. 11. Hose	Oakland street	49	52	.....	.....	.....	.....	See Police Station No. 7 for valuations.
No. 12. Engine, Hook and Ladder No. 3	Smith and Orms sts.	68	621	6,462	2,910 00	27,000 00	29,910 00	Brick building, built in 1875, and cost $12,000. A brick addition was built in 1885, and cost $7,640, for ward room and evening schools.
No. 13. Hose	Central street	30	67	3,543	1,240 00	5,200 00	6,440 00	Brick building, built in 1874–5, and cost $7,500.
No. 14. Engine	Putnam and Amherst streets	62	109	4,116	1,029 00	10,000 00	11,029 00	Brick building, built in 1875, and cost $10,000. An addition built in 1893–4, and cost $6,395.69.
No. 15. Hose, Hook and Ladder No. 4	Wickenden street	16	471	11,036	6,622 00	42,000 00	48,622 00	Brick building, built in 1875–6, cost $40,735.35. The Third District Police occupy a part of this building; also brick building, built in 1895–6 for Hook and Ladder No. 4, cost $12,620.
No. 16. Engine	Branch avenue and Charles street	71	295	11,122	2,002 00	9,000 00	11,002 00	Wood building, built in 1890, and cost $11,521.27.
No. 17. Hose	North Main street	8	58	3,932	1,180 00	5,000 00	6,180 00	Brick building, built in 1866.
No. 18. Hose	Broad street	58	377	9,456	2,364 00	15,000 00	17,364 00	Brick building, completed in 1896, and cost $18,924.09.

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No. 19 Hose	Haymarket street	10	28	.....	.....	.....	.....	Area and valuations included in miscellaneous schedule.
No. 20 Hose	Manton avenue	34	190	30,787	$1,231 00	$10,000 00	$11,231 00	Wood building, completed in 1889, and cost $11,497.60.
Hook and Ladder No. 5	Public street	48	926	7,646	1,447 00	12,000 00	13,447 00	Brick building, completed in 1885, and cost $14,495.36. A portion used for a ward room and for school purposes.
Reserve Apparatus	South Main street	16	82	.....	.....	4,500 00	4,500 00	Brick building, on land leased of the heirs of Harriot Brown.
Storage	Bark and Mill streets	3	159	1,158	869 00	5,000 00	5,869 00	Brick building, formerly occupied by Hose Company No. 4.
	Totals	....	...	142,504	$69,145 00	$286,200 00	$355,345 00	

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POLICE STATIONS AND WARD ROOMS.

Name.	Location.	Assessors' Plan No.	Assessors' Lot. No.	Area square feet.	Assessors' Valuation. Land.	Buildings.	Total.	Remarks.
Station No. 1.....	Fountain street..	25	129	25,589	$44,781 00	$135,000 00	$179,781 00	Group of buildings built of brick, connected together and occupied by the police of the first district; the Police Court, Overseer of the Poor, and Inspector of Milk. There is also a Ward Room in the building. Completed in 1896.
Station No. 2.....	Chalkstone ave..	2	23	7,960	3,582 00	27,500 00	31,082 00	Brick building, built in 1876. Stable built in 1885.
Station No. 3.....	Wickenden st....	16	471	.....	.....	.....	.....	See "Fire Stations" for valuations.
Station No. 4.....	Knight street....	29	210	9,040	3,164 00	14,000 00	17,164 00	Brick building. Brick stable erected in 1894–5.
Station No. 5.....	Plain street.....	23	518	12,000	4,200 00	28,500 00	32,700 00	Brick building, built in 1885–6 at a cost of $29,650.00; also brick stable completed in 1895, cost $4,628.07.
Station No. 6.....	Chaffee street....	62	392	10,157	2,843 00	22,000 00	24,843 00	Brick buildings, erected in 1890-1 at a cost of $29,914.35.
Station No. 7.....	Oakland street...	49	52	6,115	2,446 00	24,000 00	26,446 00	Brick building, built in 1888-9 at a cost of $21,097.07 and enlarged in 1893-4 at a cost of $6,650 79. Occupied by police, Hose Company No. 11, and for a Ward Room.
Ward Room.....	Pallas street.....	28	27	4,052	2,026 00	5,000 00	7,026 00	Brick building erected in 1872. A small portion of this lot is rented to G. H. Hagan at $18.00 per annum, and a portion used for a bell tower.
Ward Room.....	Beacon avenue..	23	547	3,655	1,279 00	2,500 00	3,779 00	Wood building, removed from Winter street in 1888 and rebuilt at a cost of $2,284.82.
Ward Room and Schools.....	Atwell's and Academy aves.	65	1	4,289	1,201 00	12,500 00	13,701 00	Brick building, erected in 1889 at a cost of $16,022.48 furnished; occupied as a Ward Room and for schools.
	Totals.....	....	....	82,857	$65,522 00	$271,000 00	$336,522 00	

See Fire Stations for additional Ward Rooms.

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DEXTER DONATION.

The following property was devised to the Town of Providence, in the year 1824, by the will of Ebenezer Knight Dexter, Esq. (See City Auditor's Annual Report for 1864.)

Assessors' Plat No.	Assessors' Lot No.	Location.	Area square feet.	Assessors' Valuation. Land.	Buildings.	Total.	Remarks.
11	2	Hope, Lloyd and Angell sts....	1,685,962	$252,894 00	$118,000 00	$370,894 00	Dexter Asylum and farm.
32	200	Dexter, Durfee, Parade and Waterloo sts.....	395,410	177,935 00	.....	177,935 00	Dexter Training Ground. Reserved and appropriated by the will of Mr. Dexter as a training field. A bronze statue of Ebenezer Knight Dexter, donated by Henry C. Clark, Esq., is located on this field.
10	63 / 64	No. Main st. and Arsenal lane.	9,688	17,815 00	2,000 00	19,815 00	Leased to J. B. Barnaby estate at $800 per annum and taxes.
10	62	No. Main st. and Arsenal lane.	1,670	5,845 00	1,500 00	7,345 00	Leased to Horace B. Knowles at $525 per annum and taxes.
10	606	Meeting st., near No. Main st..	5,820	7,100 00	1,000 00	8,100 00	Leased to William V. Wallace at $320 per annum and taxes.
8	63	North Main and Bacon sts....	4,000	1,200 00	.....	1,200 00	Leased to Rufus Green Est. at $125 per annum and taxes.
8	64	Scott st., east side.....	9,028	1,083 00	.....	1,083 00	Leased to Toye & Holmes at $112 per annum and taxes.
8	207	Doyle ave. and Scott st.....	2,220	333 00	.....	333 00	
8	133	Bacon and Scott sts.....	6,593	791 00	.....	791 00	Leased to William Urquhart and $100 per annum and taxes.
8	211	Doyle ave., south side.....	7,475	1,346 00	.....	1,346 00	Leased to Teresa S. Carroll at $65 per annum and taxes.
8	212	Doyle ave., south side.....	5,981	1,069 00	.....	1,069 00	Leased to Annie McMillan Patterson at $70 per annum and taxes.

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Dexter Donation (*Continued*).

Assessors' Plat No.	Assessors' Lot No.	Location.	Area square feet.	Assessors' Valuation. Land.	Buildings.	Total.	Remarks.
8	213	Doyle ave., south side.....	5,940	$1,069 00	.....	$1,069 00	Leased to William S. Smith at $70 per annum and taxes.
8	214, 215	Doyle ave., south side.....	11,868	2,136 00	.....	2,136 00	Leased to Josephine M. Walling at $110 per annum and taxes.
8	216	Doyle ave., south side.....	5,928	1,067 00	.....	1,067 00	Leased to Jesse B. Sweet at $54 per annum and taxes.
8	217	Doyle ave., south side.....	5,925	1,066 00	.....	1,066 00	Leased to Lafayette Rogers at $48 per annum and taxes.
8	218	Doyle ave., south side..	5,921	1,066 00	.....	1,066 00	Leased to William S. Smith at $53 per annum and taxes.
8	219	Doyle ave., south side.....	5,917	1,065 00	.....	1,065 00	Leased to Sarah A. Fitzgerald at $53 per annum and taxes.
8	220	Doyle ave., south side.....	5,913	1,064 00	.....	1,064 00	Leased to Sarah A. Fitzgerald at $53 per annum and taxes.
8	221, 222	Doyle ave., south side.....	11,814	2,127 00	.....	2,127 00	Leased to Sarah A. Fitzgerald at $106 per annum and taxes.
8	223	Doyle ave., south side.....	5,901	1,062 00	.....	1,062 00	Leased to Sarah A. Fitzgerald at $53 per annum and taxes.
8	225	Doyle ave., south side.....	23,567	4,241 00	.....	4,241 00	Rented to City of Providence at $140 per annum. Doyle avenue Grammar School House is located on this lot.
8	228	Doyle ave., south side.....	5,882	1,059 00	.....	1,059 00	Leased to Alfred Smith at $53 per annum and taxes.
8	229, 230	Doyle ave., and Camp st.....	13,931	3,858 00	.....	3,858 00	Leased to Edwin L. Spink at $115 per annum and taxes.
8	231	Camp st., near Doyle ave.....	7,759	1,785 00	....	1,785 00	Leased to John Grant at $55 per annum and taxes.
8	232, 233	Camp st., and Doyle ave.....	14,847	3,921 00	.....	3,921 00	Leased to James W. Ross at $120 per annum and taxes.
8	234	Doyle ave., south side.....	8,919	1,338 00	.....	1,338 00	Leased to Emeline P. Dodge at $53 per annum and taxes.
8	235	Doyle ave., south side.....	8,928	1,339 00	.....	1,339 00	Leased to Elizabeth B. Sweet at $53 per annum and taxes.

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8	236	Doyle ave., south side..... ...	8,936	$1,340 00	.....	$1,340 00	Leased to Duncan Grant at $53 per annum and taxes.
8	237	Doyle ave., south side.....	8,945	1,342 00	.....	1,342 00	Leased to Silas E. Field at $50 per annum and taxes.
8	238	Doyle ave., south side..	8,954	1,343 00	.....	1,343 00	Leased to Huldah N. Walling at $50 per annum and taxes.
8	239	Doyle ave., south side.....	8,963	1,255 00	.....	1,255 00	Leased to Charles L. and Henry R. Rogers at $50 per annum and taxes.
8	240	Doyle ave., south side.....	8,971	1,256 00	.....	1,256 00	Leased to Charles E. Taylor at $50 per annum and taxes.
8	241	Doyle ave., south side.....	8,980	1,257 00	.....	1,257 00	Leased to James P. Millard at $50 per annum and taxes.
8	242	Doyle ave., south side.....	8,989	1,258 00	.....	1,258 00	Leased to Susan T. Weeks at $50 per annum and taxes.
8	243	Doyle ave., south side.....	8,997	1,170 00	.....	1,170 00	Leased to Lucinda Booth at $50 per annum and taxes.
8	244, 245, 246	Doyle ave., south side..	27,045	3,516 00	.....	3,516 00	Leased to Maria T. Richards est. at $150 per annum and taxes.
8	247, 248	Doyle ave., south side.....	18,073	2,169 00	.....	2,169 00	Leased to Caleb R. Barney at $100 per annum and taxes.
8	249, 250	East and Doyle aves.....	27,690	6,230 00	.....	6,230 00	Leased to George R. Viall at $150 per annum and taxes.
8	132	East and Doyle aves.....	8,745	3,061 00	.....	3,061 00	Leased to Thomas F. Gilbane at $80 per annum and taxes.
8	409	East ave., near Doyle ave.....	11,947	2,987 00	.....	2,987 00	Leased to William Gilbane at $80 per annum and taxes.
8	410	Doyle ave., south side.....	8,133	976 00	.....	976 00	Leased to James C. Conroy at $43.50 per annum and taxes.
8	411	Doyle ave., south side....	7,949	954 00	.....	954 00	Leased to James C. Conroy at $45 per annum and taxes.
8	412	Doyle ave., south side.....	7,766	932 00	.....	932 00	Leased to Thomas H. Donahue at $45 per annum and taxes.
8	413	Doyle ave., south side.....	7,583	909 00	.....	909 00	Leased to Thomas A. O'Gorman at $45 per annum and taxes.
8	414	Doyle ave., south side.....	7,400	888 00	.....	888 00	Leased to Thomas A. O'Gorman at $45 per annum and taxes.
8	415	Doyle ave., south side.....	7,217	866 00	.....	866 00	Leased to James P. Millard at $60 per annum and taxes.
8	416	Doyle ave., south side.....	7,034	844 00	.....	844 00	Leased to James P. Millard at $60 per annum and taxes.
8	417	Olney street and Doyle ave....	4,921	886 00	..... .	886 00	
8	418	Olney st., west side, near Doyle ave.....	4,783	670 00	....	670 00	

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DEXTER DONATION—(*Continued.*)

Assessors' Plat No.	Assessors' Lot No.	LOCATION.	Area square feet.	ASSESSORS' VALUATION. Land.	Buildings.	Total.	REMARKS.
8	419	Olney st., west side, near Doyle ave.....	4,590	$689 00	.....	$689 00	
29	132	Westminster st., near junction with Cranston st....	4,541	19,299 00	.....	19,299 00	Leased to James Hanley at $1,000 per annum and taxes.
32	210	Cranston st.....	6,032	3,016 00	.....	3,016 00	½ leased to Mary W. Jopp at $90 per annum and taxes. ½ leased to Rhode Island Hospital Trust Co., trustee, at $68 per annum and taxes.
32	211	Cranston st.....	6,785	3,393 00	.....	3,393 00	Leased to Edward Rice at $170 per annum and taxes.
32	212	Cranston st.....	6,032	3,016 00	....	3,016 00	Leased to James F. Angell at $160 per annum and taxes.
32	253	Cranston st.....	6,032	3,016 00	.....	3,016 00	Leased to Robert W. Warren at $160 per annum and taxes.
32	235	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Salley Reed at $75 per annum and taxes.
32	236	Harrison st., west side.....	5,025	2,513 00	....	2,513 00	Leased to Elizabeth J. Blanchard at $75 per annum and taxes.
32	237	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Elizabeth P. Walden at $75 per annum and taxes.
32	238	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Hannah Pierce at $75 per annum and taxes.
2	239	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John F. Pierce at $75 per annum and taxes.
32	240	Harrison st., west side.....	5,025	2,513 00	....	2,513 00	Leased to Dexter and Hannah Pierce at $75 per annum and taxes.
32	244	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Caleb G. Burrows est. at $70 per annum and taxes.

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32	245	Harrison st., west side.... ...	$5,025	$2,513 00	.....	$2,513 00	Leased to John F. Pierce at $70 per annum and taxes.
32	246	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Ray G. Burlingame at 70 per annum and taxes.
32	247	Harrison st., west side.....	5,025	2,513 00	....	2,513 00	Leased to Benjamin F. Arnold at $70 per annum and taxes.
32	248, 249	Harrison st., west side.....	10,050	5,026 00	.....	5,026 00	Leased to Hannah F. Baxter at $140 per annum and taxes.
32	250	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John A. Bennett at $70 per annum and taxes.
32	259	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Louise A. Tourtellot at $70 per annum and taxes.
32	260	Harrison st., east side..... ...	5,025	2,513 00	.....	2,513 00	Leased to Mary Dow at $70 per annum and taxes.
32	261	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to William A. Spink at $70 per annum and taxes.
32	262	Harrison st., east side..... :	5,025	2,513 00	....	2,513 00	Leased to Amey E. Williams at $70 per annum and taxes.
32	263	Harrison st., east side..... .	5,025	2,513 00	.....	2,513 00	Leased to Abbie G. Healey at $70 per annum and taxes.
32	264	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Sarah L. Sweet at $70 per annum and taxes.
32	267	Harrison st., east side...	5,025	2,513 00	.....	2,513 00	Leased to Catherine Cronin at $75 per annum and taxes.
32	268	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Richard B. Davis at $75 per annum and taxes.
32	269	Harrison st., east side.....	5,025	2,513 00	.. ..	2,513 00	½ leased to Almon S. Baker at $37.50 per annum and taxes. ½ leased to Benjamin Comstock at $37.50 per annum and taxes.
32	270	Harrison st., east side.....	5,025	2,513 00	... ...	2,513 00	Rented to the City of Providence at $25 per annum. A school and ward room building is located on this lot.
32	272	Harrison st., east side.....	10,050	5,025 00	....	5,025 00	Rented to the City of Providence at $50 per annum. A fire station is located on this lot.
32	282	Hammond st., west side.	5,025	2,513 00	.....	2,513 00	Leased to Edwin W. Irons est. at $70 per annum and taxes.
32	283	Hammond st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Patrick Brown at $70 per annum and taxes.
32	284	Hammond st., west side.	5,025	2,513 00	.....	2,513 00	Leased to Hannah Pierce at $70 per annum and taxes.
32	285, 286	Hammond st., west side.	10,050	5,528 00	.....	5,528 00	Leased to Mary B. Sheldon at $140 per annum and taxes.
32	287	Hammond st., west side.....	5,025	3,015 00	.. ..	3,015 00	Leased to James S. Kenyon at $80 per annum and taxes.

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DEXTER DONATION—(*Continued.*)

Assessors' Plat No.	Assessors' Lot No.	LOCATION.	Area square feet.	ASSESSORS' VALUATION. Land.	Buildings.	Total.	REMARKS.
32	288	Hammond st., west side.....	5,025	$2,513 00	.....	$2,513 00	Leased to Ellen R. Angell at $65 per annum and taxes.
32	289	Hammond st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Edward B. Hanes at $65 per annum and taxes.
32	290	Hammond st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Caroline H. Jenks at $65 per annum and taxes.
32	293	Hammond st., west side.....	15,075	7,538 00	.....	7,538 00	Rented to City of Providence at $75 per annum. A school building is located on this lot.
32	294	Hammond st., west side.....	4,666	2,800 00	.....	2,800 00	Leased to Albert A. Smith at $80 per annum and taxes.
32	298	Hammond st., east side.....	5,387	3,340 00	.....	3,340 00	Leased to Horace Remington at $85 per annum and taxes.
32	299	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Sidney S. Williams at $65 per annum and taxes.
32	300	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Caroline E. Mathewson at $65 per annum and taxes.
32	301	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Hannah Pratt at $65 per annum and taxes.
32	302	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Cora L. Armitage at $65 per annum and taxes.
32	303	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Advent Christian Church at $65 per annum and taxes.
32	305	Hammond st., east side.....	5,025	3,015 00	.....	3,015 00	Leased to Samuel Mowry est. at $80 per annum and taxes.
32	306	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Samuel I. Smith at $65 per annum and taxes.
32	307	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Abba Burlingame at $70 per annum and taxes.
32	308	Hammond st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Samuel Moore at $70 per annum and taxes.
67	217	Promenade and Valley sts....	15,645	939 00	.....	939 00	Thatch right.
15	10	Waterman and Pitman sts.....	29,544	591 00	.....	591 00	Thatch right.
		Totals.....	2,831,232	$689,984 00	$122,500 00	$812,484 00	

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GENERAL SUMMARY OF REAL ESTATE.

Schedule.	Area, Sq. Feet.	Assessors' Valuation.		
		Land.	Buildings and Improvements.	Total.
Water Works	15,381,374	*$755,962 00	†$2,484,746 00	$3,240,708 00
Miscellaneous	2,691,495	1,248,269 00	126,500 00	1,374,769 00
Miscellaneous, Public Buildings, etc.	7,391,902	840,710 00	1,073,200 00	1,913,910 00
Parks and Squares	22,046,604	1,033,168 00	82,200 00	1,115,368 00
Public School Estates	1,530,454	431,823 00	1,586,700 00	2,018,523 00
Fire Stations	142,504	69,145 00	286,200 00	355,345 00
Police Stations and Ward Rooms	82,857	65,522 00	271,000 00	336,522 00
Dexter Donation	2,831,232	689,984 00	122,500 00	812,484 00
Total	52,098,422	$5,134,583 00	$6,033,046 00	$11,167,629 00

* Includes improvements on a part of the property.

† Includes valuations by Commissioner, of distribution mains, etc.

The following is a summary of real and personal property, exclusive of cash in the treasury, held by the City of Providence on September 30, 1897, viz.:

Senator Henry B. Anthony Prize Fund, as per page 114	$3,000 00
Trust Funds, as per page 118	197,585 95
Personal Property, as per page 173	490,019 53
Sinking Funds, and amount to credit of Committee on City Debt, as per page 12	3,822,129 55
Real Estate, as per page 225	11,167,629 00
Total	$15,680,364 03

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SCHEDULE OF PRODUCTIVE REAL ESTATE

BELONGING TO THE DEXTER DONATION.

Names of Tenants.	Where Located.	Rate per Annum.	Years.	Termination of Lease.
James W. Ross	Two lots on Doyle avenue	$120 00	*40	July 1, 1911
Edwin L. Spink	Two lots " "	115 00	40	July 1, 1911
George R. Viall	Two lots " "	150 00	40	Jan. 1, 1911
John Grant	One lot " "	55 00	40	July 1, 1911
Lucinda Booth	One lot " "	50 00	40	July 1, 1911
Josephine M. Walling	Two lots " "	110 00	40	Jan. 1, 1932
Jesse B. Sweet	One lot " "	54 00	40	Jan. 1, 1927
Lafayette Rogers	One lot " "	48 00	40	Jan. 1, 1927
School Committee	Four lots " "	140 00		
Caleb R. Barney	Two lots " "	100 00	40	Jan. 1, 1911
Susan T. Weeks	One lot " "	50 00	40	May 1, 1911
Maria T. Richards Est.	Three lots " "	150 00	40	July 1, 1911
Charles E. Taylor	One lot " "	50 00	40	July 1, 1913
James P. Millard	One lot " "	50 00	40	July 1, 1913
James P. Millard	One lot " "	60 00	40	July 1, 1936
James P. Millard	One lot " "	60 00	40	Oct. 1, 1936
William S. Smith	One lot " "	53 00	40	April 1, 1912
Sarah A. Fitzgerald	One lot " "	53 00	40	May 1, 1932
Sarah A. Fitzgerald	Two lots " "	106 00	40	May 1, 1912
Sarah A. Fitzgerald	One lot " "	53 00	40	May 1, 1932
Sarah A. Fitzgerald	One lot " "	53 00	40	July 1, 1912
Elizabeth B. Sweet	One lot " "	53 00	40	Oct. 1, 1913
Duncan Grant	One lot " "	53 00	40	Oct. 1, 1913
Alfred Smith	One lot " "	53 00	40	Oct. 1, 1913
Emeline P. Dodge	One lot " "	53 00	40	July 1, 1913
Annie MacMillan Paterson	One lot " "	70 00	40	April 1, 1914
William S. Smith	One lot " "	70 00	40	April 1, 1914
Huldah N. Walling	One lot " "	50 00	40	Nov. 1, 1913
Charles L. and Henry R. Rogers	One lot " "	50 00	40	May 1, 1914
Silas E. Field	One lot " "	50 00	40	Nov. 1, 1913
James C. Conroy	One lot " "	43 50	40	May 1, 1928
Teresa S. Carroll	One lot " "	65 00	40	April 1, 1914
Thomas F. Gilbane	1½ lots " "	80 00	40	July 1, 1934
William Gilbane	1½ lots " "	80 00	40	July 1, 1934
James C. Conroy	One lot " "	45 00	40	Oct. 1, 1934
Thomas H. Donahue	One lot " "	45 00	40	Oct. 1, 1934
Thomas A. O'Gorman	Two lots " "	90 00	40	Dec. 1, 1934
William Urquhart	Two lots on Bacon and Scott sts.	100 00	40	Dec. 1, 1911
J. B. Barnaby Estate	Tavern estate on North Main st.	800 00	40	Nov. 1, 1911
William V. Wallace	House and lot on Meeting street	320 00	40	Nov. 1, 1911
Horace B. Knowles	House and lot south of tavern est.	525 00	40	June 1, 1914
Rufus Greene Estate	Dwight lands	125 00		
Toye & Holmes	Dwight lands	112 00		
James Hanley	Land on Westminster street	1,000 00	40	Oct. 1, 1908
Fire Department	Two lots on Harrison street	50 00		
School Committee	One lot " "	25 00		
Salley Read	One lot " "	75 00	40	Feb. 1, 1909
Amount carried forward		$5,762 50		

*All estates leased for forty years are subject to the annual city tax.

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SCHEDULE OF PRODUCTIVE REAL ESTATE

BELONGING TO THE DEXTER DONATION.

Names of Tenants.	Where Located.	Rate per Annum.	Years.	Termination of Lease.
Amount brought forward		$5,762 50		
Elizabeth P. Walden	One lot on Harrison street	75 00	40	May 1, 1909
Elizabeth J. Blanchard	One lot " "	75 00	40	Feb. 1, 1910
Hannah Pierce	One lot " "	75 00	40	Jan. 1, 1910
John F. Pierce	One lot " "	75 00	40	Jan. 1, 1910
Dexter and Hannah Pierce	One lot " "	75 00	40	Jan. 1, 1910
Caleb G. Burrows Est.	One lot " "	70 00	40	Jan. 1, 1910
John F. Pierce	One lot " "	70 00	40	Feb. 1, 1910
Ray G. Burlingame	One lot " "	70 00	40	Mar. 1, 1910
Benjamin F. Arnold	One lot " "	70 00	40	Mar. 1, 1910
Hannah F. Baxter	Two lots " "	140 00	40	Feb. 1, 1910
John A. Bennett	One lot " "	70 00	40	Aug. 1, 1937
Louise A. Tourtellott	One lot " "	70 00	40	Feb. 1, 1910
Mary Dow	One lot " "	70 00	40	Mar. 1, 1910
William A. Spink	One lot " "	70 00	40	April 1, 1910
Amey E. Williams	One lot " "	70 00	40	Feb. 1, 1910
Abbie G. Healey	One lot " "	70 00	40	Jan. 1, 1910
Sarah L. Sweet	One lot " "	70 00	40	Jan. 1, 1910
Catherine Cronin	One lot " "	75 00	40	Feb. 1, 1910
Richard B. Davis	One lot " "	75 00	40	Feb. 1, 1910
Almon S. Baker Est.	One-half lot " "	37 50	40	Jan. 1, 1910
Benjamin Comstock	One-half lot " "	37 50	40	Jan. 1, 1910
School Committee	Three lots on Hammond st.	75 00		
Samuel I. Smith	One lot " "	65 00	40	May 1, 1909
Samuel Mowry Est.	One lot " "	80 00	40	May 1, 1909
Hannah Pratt	One lot " "	65 00	40	May 1, 1909
Mary B. Sheldon	Two lots " "	140 00	40	Aug. 9, 1909
Cora L. Armitage	One lot " "	65 00	40	July 1, 1909
Caroline H. Jenks	One lot " "	65 00	40	Nov. 1, 1910
Edward B. Hanes	One lot " "	65 00	40	Oct. 1, 1934
Ellen R. Angell	One lot " "	65 00	40	Nov. 1, 1909
James S. Kenyon	One lot " "	80 00	40	May 1, 1967
Hannah Pierce	One lot " "	70 00	40	May 1, 1910
Patrick Brown	One lot " "	70 00	40	May 1, 1910
Edwin W. Irons Est.	One lot " "	70 00	40	May 1, 1910
Samuel Moore	One lot " "	70 00	40	May 1, 1910
Abba Burlingame	One lot " "	70 00	40	May 1, 1910
Advent Christian Church	One lot " "	65 00	40	April 1, 1910
Caroline E. Mathewson	One lot " "	65 00	40	July 1, 1910
Sidney S Williams	One lot " "	65 00	40	May 1, 1910
Horace Remington	One lot " "	85 00	40	May 1, 1910
Albert A. Smith	One lot " "	80 00	40	Nov. 1, 1918
Robert W. Warren	One lot on Cranston street	160 00	40	Jan. 1, 1930
James F. Angell	One lot " "	160 00	40	May 20, 1936
Edward Rice	One lot " "	170 00	40	July 1, 1910
Mary W. Jopp	One-half lot " "	90 00	40	July 1, 1936
Rhode Island Hospital Trust Co., Trustee	One-half lot " "	68 00	40	July 1, 1910
Total		$9,395 50		

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SCHEDULE OF PRODUCTIVE REAL ESTATE

BELONGING TO THE CITY OF PROVIDENCE.

Names of Tenants.	Where Located.	Rate per Annum.	Years.	Termination of Lease.
German School Soc'ty.	Beacon avenue, two rooms in old school house	$25 00	1	
Daniel W. Goodspeed	Burgess street, land	275 00	1	
*J. H. & J. B. Sweet	Charles street, land, east side	7½ 00	5	Oct. 1, 1900
John Burns	Charles, cor. Stevens street, land	75 00	1	
James Hanley	Charles, cor. Mill street, land	60 00	1	
Seager S. Atwell	Field's Point Farm, part of	500 00	13	Jan. 1, 1905
Patrick Donovan	Gano street, land	96 00	1	
Charles P. Olney	James street ferry	12 00	1	
Providence Board of Trade	Market square, City Building	4,000 00	10	Jan. 1, 1900
Lenad Azedeck Congregation	Mill street, Hall in Old Fire Station No. 4	96 00	1	
George A. Sayer	Mill street, junction with Blackstone canal, land	40 00	1	
G. H. Hagan	Pallas street, land	18 00	1	
A. A. Hopkins & Co.	Pond street, land	100 00	1	
N. E. R. R. Co.	Public streets	500 00	5	Feb. 6, 1898
N. Y. N. H. & H. R. R. Co.	Public streets	25 00	1	
Frank F. Carpenter	South Water street wharf for storage of lumber at fifteen cents per M	.....	..	
Cornell & Haskins	Washington bridge, land on north side of approach, site for bill board	25 00	1	
Union Railroad Co.	Weybosset Bridge, depot site	1,500 00		
Total		$7,419 00		

*Subject to the annual tax.

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ANNUAL REPORT

OF THE

CITY TREASURER

FOR THE

FINANCIAL YEAR

1896–'97.

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DR. CITY OF PROVIDENCE, *in account current from October* 1, 1896,

To cash paid on Mayor's drafts and charged to the following accounts:		
Asylum Walls and Buildings	$1,988 07	
Support of the Poor	23,768 00	
		$25,756 07
Highway Department:		
Special Receipt account	17,793 74	
Sidewalks and Curbing	26,898 49	
Special account	115,943 40	
General account	244,041 58	
		404,677 21
Providence Water Works:		
Maintenance account	88,557 99	
Construction account	140,781 63	
		229,339 62
Sewerage:		
Sewer assessments	62 58	
Maintenance account	36,154 91	
Construction account	233,949 78	
		270,167 27
School Houses and Lots	140 94	
School Houses and Lots, loan account	294,533 41	
Public Schools	561,893 98	
		856,568 33
State of Rhode Island:		
Licenses, State's proportion	51,145 75	
State Tax, City's proportion	303,385 91	
		354,531 66
Amount carried forward		$2,141,040 16

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to September 30, 1897, *incl., with* D. L. D. GRANGER, *City Treasurer.* CR.

By cash received and credited to the following accounts, viz.:		
City Tax of 1896	$2,838,646 92	
Assessments for street improvements	7,759 00	
Building in violation of the law	50 00	
		$2,846,455 92
Providence Water Works:		
Construction account	11,311 42	
Maintenance account	25,080 53	
Water Rents	495,678 38	
		532,070 33
Interest:		
Assessment on layout and widening of Washington street	17 81	
Sewer Assessments	3,492 51	
City Tax of 1896	12,166 20	
Rhode Island Hospital Trust Company	3,387 20	
Merchants National Bank	5,198 45	
Industrial Trust Company	5,970 43	
Providence National Bank	9,826 27	
Manufacturers National Bank	9,695 60	
		49,754 47
Public Schools:		
Poll Tax of 1895	3 00	
Book case, desks, etc	8 00	
Fines for damages to school property	29 54	
One-half fines in dog cases	130 00	
Tuition of non-residents	3,650 00	
Poll Tax of 1896	7,941 01	
State's apportionment	25,460 63	
		37,222 18
Amount carried forward		3,465,502 90

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DR. TREASURER'S ACCOUNT, *Continued.*

Amount brought forward		$2,141,040 16
Public Parks:		
Blackstone Park Improvement, loan account	$3,736 28	
Roger Williams Park, land account	6,815 40	
General account	8,236 21	
Roger Williams Park	32,110 58	
Davis Park Improvement, loan account	34,243 06	
Roger Williams Park Improvement, loan account	148,149 45	
		233,290 98
Auditing Department		7,198 91
Casino—Roger Williams Park		29,054 97
Central Office, Fire Alarm, etc		753 36
City Clerk's Department		8,183 47
City Council		22,393 45
City Engineers		47,999 49
City Hall		25,000 00
Clerk of Common Council and Clerk of Committees		3,197 23
Contingencies		125,852 34
Dalrymple Memorial Boat House		2,928 81
Dog Licenses		394 40
Eddy Street Estate		69,340 00
Elections		17,999 92
Executive Department		7,833 99
Fire Department		337,986 76
Harbor		10,606 56
Health Department		45,856 46
Amount carried forward		$3,136,911 26

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TREASURER'S ACCOUNT, *Continued.* CR.

Amount brought forward		$3,465,502 90
Highway Department:		
Sale of manure	$743 00	
Labor and material	8,018 00	
		8,761 00
Highway, Special Account:		
Labor and material		18,042 13
Miscellaneous:		
Error in returns	20	
Expenses collected on poll taxes of 1895	75	
Sale of impounded wagon and harness at auction	1 00	
Sale of impounded horse at auction	2 00	
Expenses collected on city taxes of 1893	3 60	
City Messenger's returns for sale of City Ordinances	8 00	
Pound-keeper's returns	19 50	
Expenses collected on city taxes of 1894	23 55	
Errors in pay rolls	30 00	
Bills certified to Auditor in duplicate	33 78	
Violation of law in connecting estates with the public sewer	35 00	
City Clerk, fees	56 00	
Assessment for layout and widening of Washington street	134 00	
Auctioneers' returns	152 60	
Board of Canvassers and Registration, returns	244 62	
Expenses collected on city taxes of 1895	246 60	
Amount carried forward	$991 20	$3,492,306 03

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DR. TREASURER'S ACCOUNT, *Continued.*

Amount brought forward		$3,136,911 26
Inspector of Buildings		4,124 78
Inspector of Milk		5,197 28
Inspector of Plumbing		5,573 69
Law Department		13,249 45
License Commissioners		3,414 95
Municipal Court		6,296 46
North Burial Ground, Improvement Fund		20,559 87
Police Department		334,999 92
Printing		5,654 17
Providence Public Library		10,000 00
Public Buildings		113,593 88
Public Bridges		28,585 07
Public Lights		283,500 00
Public Works—Office		20,050 45
Record Commissioners		2,200 00
Recorder of Deeds		5,799 04
Red Bridge (New)		402 55
Relief Fund for Firemen		260 00
Relief Fund for Policemen		260 70
Rhode Island Hospital		8,000 00
Senator H. B. Anthony Prize Fund (income)		48 00
Street Signs and Numbers		1,949 73
Tax Department		16,897 59
Treasury Department		25,415 50
Weybosset Bridge and River Walls		30,891 88
Amount carried forward		$4,083,836 22

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TREASURER'S ACCOUNT, *Continued.* CR.

Amount brought forward	$991 20	$3,492,306 03
City Treasurer, garnishee fees	261 15	
Expenses collected on sewer assessments	294 35	
Assessment for layout and extension of Huntington avenue	398 00	
Expenses collected on poll taxes of 1896	417 25	
Sealer of Weights and Measures, returns	1,925 71	
Expenses collected on city taxes of 1896	3,364 75	
Recorder of Deeds, fees	6,945 00	
Municipal Court and Clerk, fees	8,029 75	
Providence Telephone Co., 1½ per cent. of gross earnings for rental of telephones	2,821 60	
Providence Cable Tramway Co., 3 per cent. of gross earnings	1,671 67	
Narragansett Electric Lighting Co., 3 per cent. of gross earnings	13,705 48	
Providence Gas Co., 3 per cent. of gross earnings	16,500 99	
Union Railroad Co., 3 per cent. of gross earnings	25,074 63	
		82,401 53
Police Department:		
Sale of old metal	116 60	
Services of police at shows, etc.	157 72	
Providence County Jail	754 50	
Fees, registering dogs	967 65	
Officers' fees, Sixth District Court	7,005 05	
Justices Police Court, fines, costs and fees	8,218 25	
		17,219 77
Amount carried forward		$3,591,927 33

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DR. TREASURER'S ACCOUNT, *Continued.*

Amount brought forward		$4,083,836 22
Commissioners of Sinking Funds:		
For redemption of bonds due in 1899 (Public Improvement Loan)	$13,550 00	
For redemption of bonds due in 1900 (Public Improvement Loan)	4,500 00	
For redemption of bonds due in 1899 (City Hall and Sewer Loan)	19,000 00	
For redemption of bonds due in 1921 (Sewer Loan)	25,000 00	
For redemption of bonds due in 1922 (Sewer Loan)	10,000 00	
For redemption of bonds due in 1923 (Sewer Loan)	10,000 00	
For redemption of bonds due in 1925 (Sewer Loan)	15,000 00	
For redemption of bonds due in 1926 (Sewer Loan)	10,000 00	
For redemption of bonds due in 1911 (School Loan)	13,300 00	
For redemption of bonds due in 1925 (School Loan)	5,000 00	
For redemption of bonds due in 1924 (Highway Loan)	25,000 00	
For redemption of bonds due in 1909 (Davis Estate Loan)	3,000 00	
For redemption of bonds due in 1922 (Park Loan)	10,000 00	
		163,350 00
Amount carried forward		$4,247,186 22

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TREASURER'S ACCOUNT, *Continued.* CR.

Amount brought forward		$3,591,927 33
Committee on City Debt:		
City tax of 1891	$4 38	
City tax of 1892	4 13	
City tax of 1893	24 85	
City tax of 1894	903 08	
City tax of 1895	3,572 71	
Sale of land on Charles street	5,887 00	
Sale of land on Cypress street	2,515 39	
Sale of land on Knowles street	742 00	
Sale of land on Ridge street	1,863 57	
Sale of land and building corner Elmwood and Potters avenues	5,525 00	
Sale of land on Swiss street	460 00	
Interest on deposits for sale of land, etc.	159 99	
		21,662 10
Streets and Sewers:		
Opening streets	1,042 00	
Entering sewers	1,468 96	
		2,510 96
Public Lights:		
Sale of old lanterns, etc.	37 60	
Sale of a horse	40 00	
		77 60
Licenses:		
Amount received from show licenses, etc.	19,281 00	
Liquor licenses	188,365 00	
		207,646 00
Amount carried forward		$3,823,823 99

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DR. TREASURER'S ACCOUNT, *Continued.*

Amount brought forward		$4,247,186 22
Commissioners of Sinking Funds:		
Premium received on $500,000. School loan due in 1927	$69,650 00	
Premium received on $300,000. Sewer loan due in 1927	45,715 00	
Premium received on $250,000. Water loan due in 1927	35,775 00	
Premium received on $500,000. Highway loan due in 1927	77,500 00	
		228,640 00
Sinking Fund Water Loan due 1900:		
For excess of receipts from water rents, &c., over and above the expense of managing the water works for the fiscal year 1896-1897		87,074 95
Interest:		
Interest on temporary loans		106,297 13
Interest on School loan due 1911	12,000 00	
Interest on School loan due 1925	12,000 00	
Interest on Park loan due 1922	20,000 00	
Interest on Davis Estate loan due 1909	3,000 00	
Interest on Public Improvement loan due 1899	22,500 00	
Interest on Public Improvement loan due 1900	7,300 00	
Interest on City Hall and Sewer loan due 1899	27,000 00	
Interest on Sewer loan due 1921	45,000 00	
Amounts carried forward	$148,800 00	$4,669,198 30

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TREASURER'S ACCOUNT, *Continued.* CR.

Amount brought forward		$3,823,823 99
Sewerage:		
Maintenance account	1,175 86	
Construction account	1,503 03	
Sewer assessments	95,702 91	
		98,381 80
Fire Department:		
Labor and material	12 45	
Sale of manure	177 00	
		189 45
City Engineer's:		
Sale of material		35 27
Public Parks:		
Public Parks, appropriation account for rents, etc	132 50	
Roger Williams Park, receipt account for use of boats, etc	1,261 28	
Roger Williams Park, appropriation account for use of boats, etc	4,969 31	
		6,363 09
Rents:		
Amount received for rents		7,580 03
Dog Licenses:		
Amount received for dog licenses		9,938 00
North Burial Ground Improvement Fund:		
Sale of lots, interments etc		18,518 43
Sidewalks and Curbing:		
Curbing and concreting		35,731 61
Amount carried forward		$4,000,561 67

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DR. TREASURER'S ACCOUNT, *Continued.*

Amounts brought forward....	$148,800 00	$4,669,198 30
Interest:		
Interest on Sewer loan due 1922.....	20,000 00	
Interest on Sewer loan due 1923.....	20,000 00	
Interest on Sewer loan due 1925.....	32,000 00	
Interest on Sewer loan due 1926.....	20,000 00	
Interest on Water loan due 1900.....	208,200 00	
Interest on Water loan due 1906.....	75,000 00	
Interest on Water loan due 1916.....	16,905 00	
Interest on Water loan due 1923.....	32,680 00	
Interest on Water loan due 1926.....	8,000 00	
Interest on Highway loan due 1924.....	48,000 00	
		629,585 00
Highway Special Loan Chapter 91:		
Note No. 72 "E.".....	.....	20,000 00
Highway Special Loan Chapter 243:		
Note No. 79 "E.".....	20,000 00	
Notes No. 77 "E" and Nos. 80 "E" to 87 "E" inclusive (Renewed).....	340,000 00	
		360,000 00
Amount carried forward	.....	$5,678,783 30

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TREASURER'S ACCOUNT, *Continued.* CR.

Amount brought forward		$4,000,561 67
Senator H. B. Anthony Prize Fund (Income):		
Received from Commissioners of Sinking Funds		144 79
Estate of William Simms:		
Received from J. G. Parkhurst, Public Administrator		210 69
Reservation Fund:		
For amount reserved under contract with Narragansett Improvement Company for laying asphalt pavement		1,599 00
School Houses and Lots, Loan Account:		
For error in pay roll		15 00
Public Buildings, Receipt Account:		
Sale of old material, etc		195 03
Public Buildings, Appropriation Account:		
J. A. Ripley for error in bill		103 95
Public Bridges:		
Sale of old material	$111 35	
Union Railroad Company for labor and material	2,432 30	
		2,543 65
Support of the Poor:		
Sale of wood, etc		6,169 52
North Burial Ground, Sinking Fund:		
Apportionment of receipts from sale of land in North Burial Ground		343 20
Amount carried forward		$4,011,886 50

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DR. TREASURER'S ACCOUNT, *Continued.*

Amount brought forward		$5,678,782 30
Loan Account:		
October, 1896, Note No. 1970	151,692 95	
March, 1897, Note No. 1912	80,000 00	
April, 1897, Notes Nos. 1925, 1931, 1944, 1945, 1947, 1959, 1960, 1961, 1962, 1963, 1965, 1968, 1969, 1973, 1974, 1975, 1976, 1981 to 2000 inclusive, 74 "E," 75 "E," and 76 "E"	1,442,000 00	
May, 1897, Notes Nos. 1909, 1911, 1914, 1915, 1916, 1917, 1918, 1919, 1921, 1923, 1924, 1928, 1929, 1930, 1933, 1934, 1935, 1936, 1937, 1942, 1946, 1948 to 1958 inclusive 1964, 1966, 1967, 1971, 1972, 1977, 1978, 1979, 1980, 2001 and 2002	1,216,828 15	
July, 1897, Notes Nos. 2003, 2004, 2005 and 2006	291,692 95	
		3,182,214 05
Total payments		$8,860,997 35
Balance of cash remaining of fiscal year 1896-97		227,556 86
Amount carried forward		$9,088 554 21

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TREASURER'S ACCOUNT, *Continued.* CR.

Amount brought forward		$4,011,886 50
Special Highway Loan, Chapter 243:		
Notes Nos. 79 "E" to 87 "E" inclusive dated Nov. 17, 1896	$180,000 00	
Notes Nos. 88 "E" to 95 "E" inclusive dated July 13, 1897	160,000 00	
		340,000 00
Sewer Loan due 1927:		
Received from sale of 4 per cent. gold bonds due April 1, 1927	300,000 00	
Premium on same	45,715 00	
		345,715 00
School Loan due 1927:		
Received from sale of 4 per cent, gold bonds due April 1, 1927	500,000 00	
Premium on same	69,650 00	
		569,650 00
Highway Loan due, 1927:		
Received from sale of 4 per cent. gold bonds due April 1, 1927	500,000 00	
Premium on same	77,500 00	
		577,500 00
Water Loan due 1927:		
Received from sale of 4 per cent. gold bonds due April 1, 1927	250,000 00	
Premium on same	35,775 00	
		285,775 00
Park Loan due 1947:		
Received from sale of 3 1-2 per cent. gold bonds due May 1, 1947		674,000 00
Amount carried forward		$6,804,526 50

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DR. TREASURER'S ACCOUNT, *Continued.*

Amount brought forward.....	.....	$9,088,554 21
		$9,088,554 21

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TREASURER'S ACCOUNT, *Continued.* CR.

Amount brought forward		$6,804,526 50
Public Improvement Loan due 1937:		
Received from sale of 3 1-2 per cent. gold bonds due May 1, 1937		640,000 00
Loan account:		
Note dated December 2, 1896	$69,340 00	
Notes dated December 15, 1896	275,000 00	
Notes dated February 18, 1897	130,000 00	
Notes dated March 19, 1897	80,000 00	
Note dated June 15, 1897	151,692 95	
Notes dated June 18, 1897	140,000 00	
Notes dated July 13, 1897	291,692 95	
Note dated July 27, 1897	34,000 00	
Notes dated Sept 20, 1897	230,000 00	
		1,401,725 90
Total receipts		$8,846,252 40
Balance of cash on hand October, 1896		242,301 81
		$9,088,554 21

NOVEMBER 22, 1897.

D. L. D. GRANGER, *City Treasurer.*

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ANNUAL REPORT

OF THE

SUPERINTENDENT

OF

PUBLIC BUILDINGS,

FOR THE YEAR

1897.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street,
1898.

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JOINT STANDING COMMITTEE ON CITY PROPERTY
1897.

BURMAH E. PERKINS, *Chairman.*
JAMES K. TRASK,
WILLIAM BLAKELY,
ABRAHAM A. GRAY,
ALDERMAN ROBERT B. LITTLE.

D. F. HAYDEN,
Clerk of Committees.

ALBERT T. MANSFIELD,
Superintendent of Public Buildings.

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REPORT.

OFFICE OF THE
SUPERINTENDENT OF PUBLIC BUILDINGS,
December 31, 1897.

TO THE HONORABLE THE CITY COUNCIL:

The undersigned has the honor of presenting the twenty-ninth annual report of the department of Public Buildings, in the care and custody of the department, and the nature and amount of expenditures thereon during the year 1897.

SCHOOL BUILDINGS.

The classical high school, at the corner of Pond and Summer streets, was occupied in September. It is very true some details were not perfected, owing to delay in giving out sub-contracts late in December, 1896; much credit is due, however, to the building contractors, William Gilbane & Bro., for the despatch with which they carried on their part of the work when conditions allowed them to push it.

Although the building has not been turned over to the school committee, it is practically complete, only a few minor details remain in furnishing additional heat to the physical culture rooms, the original layout not calling for a higher temperature than 60°.

The total cost of the building, including furnishings, is $204,896. These figures do not include cost of site. Messrs. Martin & Hall, architects.

The Broad Street Grammar School building was occupied in September. This structure, containing twelve rooms with large hall, most generously provides for future wants, there

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being only five rooms occupied ; its internal outfit has much in common with the Classical High, a system of heating and ventilation is installed at both from plans and specifications by Prof. Woodbridge. The plumbing, marble work, sanitary arrangements, etc., by Owen McAuliffe Company. The total cost of the building is $93,600. Messrs. Martin & Hall were the architects.

The slow progress towards completion of the East Side High School has been an eye sore to me during the entire year from circumstances entirely beyond my control. The contractors, William Gilbane & Bro., met with a sad misfortune in being completely burned out; about all the standing finish for the Classical High School was also destroyed. With commendable courage they accomplished an amount of work which much older heads claimed could not be done. Very naturally the East side lagged, many changes have been made in the internal arrangement of the building, suggested by the appointed principal to the School Committee calling for extras in the sum of blue prints for cabinet work, lockers, etc., have been some three months in preparation. It was, however, known some time ago that the school department did not desire to occupy the building before the September term.

Two new six-room buildings, one at the corner of East avenue and Montague streets, and one on Mount Pleasant and Chalkstone avenues, are nearing completion. I hope to have both ready by February 7th. One room is to be used as a kindergarten in the East avenue building. Plans and specifications by Angell & Swift.

Plans are about perfected for a four-room primary at the corner of Preston and Ives streets, a duplicate of Ruggles street with slight modifications may be adopted; also a six-room building with hall at the corner of Manton and Fruit Hill avenues. I hope my suggestion to use the old building for evening school purposes transferred to another location on the lot and have one steam plant to do the heating will be carried out.

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The following school buildings have been painted outside: Friendship street, Slater avenue, Doyle avenue, Candace street, Thayer Grammar, Willow street, English High, Jackson avenue, Admiral street, Oxford street, Pallas street, ward room Bellevue avenue, and Beacon Primary.

Those having walls tinted and woodwork varnished are: Almy street, Slater avenne, Willow street, Messer Grammar hall, Admiral street, Beacon avenue Cooking School, and at Manual Training three rooms tinted.

Arnold street Kindergarten quarters were enlarged by extension into hallway.

The Beacon avenue Cooking School was doubled in floor space, pantry built, new toilet room, lockers, etc.

Two rooms upon the upper floor at Bridgham street were fitted for a cooking school, new floors laid, doorways cut, and toilet rooms provided.

Syphon jet closets were put in at Chalkstone avenue, Chester avenue, Slater avenue, Messer Grammar, Summer Primary, Pallas street, and additional closets for girls' use at Manual Training High.

Storm porches were put on at East street, Slater avenue, and Jackson avenue.

Steam boilers were put in at Messer Grammar and Vineyard street Grammar to heat halls and corridors, while at Pallas street ward room an upright boiler was set up to heat the special school on the upper floor, partitions built for class room, supply closet, coat and toilet rooms.

The old District Court Room, Canal street, has been remodeled at considerable expense, walls repaired and tinted, woodwork varnished, toilet rooms provided, and coiled heaters connected with bath tubs for use in connection with a newsboys' day school.

Some two thousand feet of flooring have been consumed in repairing floors at the English High School, and the entire basement floor, in so far as the physical culture rooms go, should be relaid during the coming summer, calling for six thousand feet more.

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The granite underpinning to Summer street Primary, together with coping about the lot has been pointed and put in first class condition.

A cellar entrance has been made to Thayer Grammar, heretofore all ashes had to be carried up stairs, and thence out by the front door.

Concrete walks have been laid about Branch Primary, Highland avenue, Willow street, Jackson avenue, Summer street Primary, Manual Training, Smith street, and Somerset street schools. Additional sewer connections and drains have been put in at Hendrick street school estate.

Electric wiring for evening school purposes has entailed an expense of fifteen hundred forty-four dollars and sixty-one cents ($1,544.61).

Basements of the following school buildings have been thoroughly cleansed and whitened: Beacon Primary, Ring street, Federal Primary, State street, Elm street, Slater avenue, Admiral street, Friendship street, Hammond street and Almy street.

There has been expended during the year:

For new school houses and furniture, .	$286,433 58
For alterations and repairs, . . .	30,937 08

POLICE STATIONS.

One of the most satisfactory improvements made during the year was at the second station patrol barn. Heretofore the horses were stabled in a dark, damp basement, partially underground. The stalls could not be properly drained, being upon the ground. When the patrol system was adopted, six years ago, alterations were made, but the plans were poorly executed. At that time the damp living quarters for the horses should have been abandoned; it was done the past year; the floors to the old building were built on line with the new, roof raised, in fact a good substantial barn resulted from

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the alterations when it is considered that only thirty-five hundred dollars were appropriated for the work.

At the third station a dry room was built in the cellar, and heater transferred to it.

Fourth station. This station has been painted inside, ceiling whitened, chimney extended to improve draft, brick work pointed, and a number of rotten window sills thrown out. The inside woodwork at patrol barn has been varnished.

Fifth station. The outside woodwork has been painted, and sash drawn.

Sixth station. Ever since the patrol station has been in use, a box stall has been the receptacle for manure, giving forth ammonia vapors in quantities to destroy varnished woodwork. To obviate this a manure pit was built outside connected with a shute, a door with transom was set in brick wall at rear of stalls, giving extra ventilation, light, and a more direct run to cell room for prisoners. The cells have been painted, cell room whitewashed, patrol barn varnished, and inside of yard asphalted.

There have been expended during the year:

For new buildings and alterations, . .	$3,500 00
For ordinary repairs, ...	4,995 45

Fire Department.

At the Three Ones station new floors were laid throughont the first story, woodwork outside and inside painted, ceilings whitened and walls tinted.

Steamer 2. New sliding pole and passage way cut to allow of more ready exit in case of alarms.

Hose 3. The capacity of heating plant was increased, and ceiling of barn sheathed.

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Hose 4. The inside was painted in 1896, the plastered walls had been repaired, but left in an unfinished condition.

Hose 6. New plumbing was put in the apparatus room, floors renewed, woodwork and walls painted.

At the building on Richmond street, occupied by Hose 7 and Protectives, a new boiler was put in in 1896 to accommodate the Hose Company. The boiler was not located right, and under orders from the Fire Commissioners it was relocated, so as to make the two companies separate and independent in the matter of heating accommodations. The entire building, inside and out, was painted and varnished.

Steamer 8. New floors were laid at rear of stalls, and the banquet room up stairs painted.

Hose 9. New floors were laid at rear of stalls, and inside work painted and varnished.

Hook and Ladder 6. Inside work painted, new water closets and bath tub put in, exercise wagon shed resilled and yard asphalted.

Hose 11. New water closet put in on first floor, and outside conductors connected with sewer.

Hose 13. New water closet put in at rear of stall. These last two companies were poorly supplied in this line, having none on first floor.

Steamer 14. New floors were laid, stalls at rear of steamer ventilated through the roof, and inside woodwork varnished.

Steamer 16. A new shed for housing the exercise wagon has been built, yard asphalted, and walks topdressed.

Hose 17. New floors are laid throughout the first story.

Hose 18. A storm porch was built, and the entire woodwork inside varnished and painted.

At Chemical 3 (now Hose 20), a new hose rack was built, and outside woodwork painted.

Hook and Ladder 4. Two rooms have been made on the first floor by dividing up the apparatus room with that occupied for horses, giving the firemen more agreeable quarters so far as temperature is concerned.

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Hose tower at Constitution Hill has been strengthened, and the one on Pallas street painted. There have been expended during the year:

For rental of land, ...	$275 00
For new additions, repairs, heating, etc. . .	4,573 14

The location of City Weigher has been changed, building painted and new scales provided, at a cost of $799.99.

The Sealer of Weights and Measures has been provided with new quarters in the old police station, Canal street, at a cost of $733.41.

BATH HOUSES.

The amount expended during the season was $988.98.

They were located June 14th, and closed September 7th.

The expenditures for the past year have been divided as follows:

For rental of land, ...	$275 00
For school houses and furniture, . . .	286,433 58
For police department buildings, . . .	8,495 45
For fire department, ...	14,573 14
For fitting up voting places, . . .	960 49
For public grounds and unspecified buildings,	13,809 85
Total, ...	$324,547 51

Before closing this report I desire to call attention of His Honor the Mayor and members of the City Council to the straightened circumstances the department has labored under the entire year. When I took charge in January, 1897, the appropriation was exhausted from bills contracted in 1896. The committee had no audit of bills in January or February. Later on $50,000 was provided. When you deduct from that amount alterations at Police 2, barn $3,500, ash and cesspool contracts $2,400, old 1896 bills $7,000, electric

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wiring $1,200, transferred to contingent fund $1,500, it does not leave much capital to make things shine. Under such conditions one is fortunate to provide for bare necessities.

Furthermore, there is not an estate owned by the City of Providence the condition of which I am a stranger to. Much money could be spent, and that judiciously. My motto is, pay as you go, and contract no bills beyond funds provided unless specialy ldirected by the committee under whose charge I am.

Thanking all members of the city government for many courtesies shown, and especially members of my own committee, I hereby present a detailed statement of expenditures, and most respectfully submit the same.

ALBERT T. MANSFIELD,

Superintendent of Public Buildings.

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TABLE OF EXPENDITURES ON SCHOOL HOUSES.

School Houses.	Carpenters, Labor and Stock.	Painters, Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ventilation.	Furniture, Carpeting and Matting.	Grading, Concreting and Lot Improvements.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
Academy Avenue	$22 25	$22 70	$1 65	$2 31	$30 28	$60 25	$180 28	$20 00	$1 76	.....	$20 98	$362 46
Admiral Street	31 11	177 21	7 24	15 75	2 25	63 05	45 57	.....	2 20	.....	.....	344 38
Africa Street	3 38	7 10	50	16 63	53 00	.....	15 40	56 68	1 13	.....	.....	153 82
Aldrich Street	4 25	4 66	2 65	11 00	9 45	.....	74 30	.....	1 40	.....	.....	107 11
Almy Street	8 30	263 21	25	26 68	2 30	.....	45 10	.....	3 96	.....	.....	349 80
Amherst Street	10 89	2 15	.....	.....	2 80	.....	9 82	.....	9 10	.....	.....	34 76
Arnold Street	105 35	41 38	35	115 50	73 65	3 44	168 55	.....	80 03	.....	8 53	596 78
Atwell's Avenue	16 82	41 75	.....	.....	.....	.....	46 03	.....	8 76	$1 50	18 00	132 86
Beacon Avenue Primary	23 63	98 38	.....	18 81	155 68	.....	12 40	.....	3 21	.....	3 87	315 98
Beacon Avenue K. and C.	125 32	90 99	60	25 15	109 28	27 11	24 21	.....	3 85	.....	.....	406 51
Bellevue Avenue	18 60	130 50	4 00	.....	65 60	.....	69 50	.....	4 20	.....	.....	292 40
Benefit Street	38 77	42 57	2 35	.....	22 38	73	106 00	.....	64 02	.....	12 30	289 12
Berlin Street	3 75	.....	.....	.....	4 25	.....	54 57	.....	52 71	.....	.....	115 28
Bourn Street	5 25	11 44	2 90	.....	.....	.....	15 15	.....	2 26	.....	.....	37 00
Branch Avenue Grammar	89 20	3 50	.....	7 10	83 78	.....	107 50	.....	5 06	.....	18 06	314 20
Branch Avenue Primary	5 77	.....	.....	.....	.....	.....	39 05	.....	103 80	.....	.....	148 62
Bridgham Street	246 29	8 70	92	8 51	212 17	201 16	112 26	.....	3 70	4 50	149 64	947 85
Broad Street	5 92	48	.....	.....	.....	.....	3 65	.....	.....	.....	1 60	11 65
Burnside Street	2 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2 50
California Avenue	8 75	9 25	72	.....	5 75	.....	105 53	.....	1 68	.....	.....	131 68
Candace Street	34 92	399 21	14 17	7 80	123 21	11 37	299 26	2 00	9 82	.....	136 15	1,037 91
Camp Street	11 12	10 30	.....	.....	.....	.....	55 10	.....	1 98	.....	.....	78 50
Carpenter Street	5 46	1 00	.....	66 00	15 96	.....	16 63	.....	2 70	2 00	.....	109 75
Chalkstone Avenue	56 32	3 15	48	2 70	302 00	3 80	28 75	.....	2 20	.....	.....	394 40
Charles Street	2 80	11 60	1 40	84 95	28 31	.....	80 46	.....	1 10	.....	26 91	237 53
Chester Avenue	27 55	7 25	.....	43 50	82 18	13 46	114 90	.....	39 57	.....	.....	328 41
Courtland Street	12 50	9 70	6 26	420 80	16 85	.....	612 76	.....	9 31	.....	.....	1,088 18
Covell Street	4 11	2 45	75	217 35	13 10	.....	20 17	.....	18 74	.....	.....	276 67
Doyle Avenue	35 83	326 19	8 96	36 82	62 33	.....	63 96	.....	4 79	.....	46 46	585 34
East Street	39 64	25 05	3 15	24 40	56 64	.....	82 88	.....	159 76	.....	.....	391 42
Eddy Street	50	1 50	.....	9 90	3 50	.....	62 50	.....	1 95	.....	5 75	85 60
Elm Street	37 22	25 17	2 29	23 90	179 42	.....	78 20	.....	2 25	2 00	.....	350 45
Elmwood Avenue	15 76	11 04	.....	.....	26 05	2 83	15 10	.....	19 35	.....	.....	90 13

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Federal Street Grammar.	137 82	75 41	.....	6 72	24 50	2 63	155 26	.....	13 75	.....	621 95	1,038 04
Federal Street Primary..	3 85	22 00	.....	9 62	8 25	.....	16 10	.....	2 07	.....	.....	61 89
Friendship Street.....	14 26	74 00	.....	20 09	62 28	.....	7 00	.....	1 68	.....	.....	179 31
Graham Street.....	14 10	15 48	.....	7 06	.....	.....	103 81	.....	1 32	.....	.....	141 77
Greeley Street.....	1 25	24 44	3 91	205 17	23 90	.....	7 85	.....	20 11	.....	.....	286 63
Hammond Street	7 00	18 04	3 15	8 75	16 75	.....	28 25	.....	52 31	.....	10 05	139 30
Harriet Street	14 65	3 20	.....	.....	42 34	.....	83 47	.....	70	.....	.....	144 36
Harris Avenue.....	6 75	11 30	.....	9 77	10 40	.....	16 24	.....	4 40	6 00	.....	64 86
Hendrick Street	73 95	7 13	1 05	389 90	18 37	16 39	44 20	.....	22 20	.....	.....	573 19
Hospital Street.....	2 50	4 48	3 55	12 75	2 30	1 05	26 12	.....	1 70	.....	.....	54 45
High School (English)..	257 11	307 62	2 14	.....	281 66	2 15	156 02	.....	174 63	.....	1,075 65	2,256 98
High School (Classical)..	83	.....	55	.....	.....	.....	2 00	.....	.....	.....	.....	3 38
Highland Avenue.....	26 22	30 85	.....	.....	6 33	13 00	21 43	.....	110 58	.....	.....	208 41
Jackson Avenue	28 20	128 86	3 42	.....	.....	5 80	71 44	.....	107 71	.....	20 75	366 18
Julian Street.....	6 25	11 74	65	47 75	7 70	.....	73 20	.....	23 95	.....	.....	171 24
Manning Street.....	20 06	20 05	26 72	.....	25 40	.....	101 99	.....	6 53	3 00	.....	203 75
Manual Training H'h Sc'l.	77 94	192 37	17 08	5 10	139 66	53 10	129 93	.....	132 00	.....	116 84	864 02
Manton Avenue	6 00	2 42	7 39	12 30	1 00	.....	14 80	.....	.....	.....	.....	43 91
Messer Street.....	160 21	132 84	3 44	193 40	263 07	10 55	1,196 82	.....	.....	.....	23 47	2,004 05
Meeting Street (Cooking)	8 25	2 75	5 00	.....	1 60	4 18	.....	.....	21 22	.....	.....	21 78
Mount Pleasant.....	.....	.....	25	.....	.....	.....	.....	.....	.....	.....	.....	25
Niagara Street.....	1 25	4 75	.....	.....	7 75	.....	51 38	.....	6 45	.....	.....	71 58
Oxford Street.....	36 03	344 75	3 25	.....	195 05	19 74	140 77	.....	355 93	.....	164 89	1,260 41
Peace Street.....	94 82	58 68	23 33	11 06	72 96	8 40	66 68	15 00	24 20	.....	38 24	413 37
Plain Street	8 25	1 35	63	.....	37 46	.....	215 01	.....	1 40	.....	.....	264 10
Point Street.....	33 00	130 06	25	17 17	54 65	8 83	171 70	.....	2 67	.....	148 62	566 95
Pallas Street.....	193 74	101 17	8 01	107 88	71 70	.....	313 00	.....	.....	.....	.....	795 50
Potter's Avenue	94 92	17 77	4 23	.....	68 46	26 60	327 32	.....	2 65	.....	10 25	551 20
Public Street.....	2 86	3 75	4 25	38 92	32 46	80	149 24	.....	3 60	.....	.....	235 58
Putnam Street.....	35 65	7 01	6 50	.....	19 63	.....	109 91	.....	16 76	.....	.....	195 46
Ring Street.....	18 92	6 50	11 63	.....	49 01	.....	29 60	.....	47 26	.....	.....	162 92
River Avenue.	53 70	28 05	.....	4 05	47 17	.....	21 50	.....	3 30	.....	7 46	165 23
Roger Williams Avenue..	2 50	6 35	.....	4 35	14 60	.....	32 95	.....	15 80	.....	.....	76 55
Ruggles Street.....	30 83	18 57	36	74 75	1 25	.....	32 22	.....	2 20	.....	.....	160 18
Sisson Street.....	1 25	11 09	.....	.....	1 50	.....	26 40	.....	3 52	.....	.....	43 76
Slater Avenue	80 71	272 52	3 15	10 50	92 79	.....	130 12	.....	61 68	.....	.....	651 47
Smith Street	6 03	2 25	2 00	.....	26 23	.....	186 21	.....	58 02	.....	.....	280 74
Somerset Street.....	10 15	13 73	3 58	.....	3 30	31 11	5 75	.....	85	.....	.....	68 47
State Street.....	17 10	1 50	.....	7 00	52 92	.....	45 25	.....	1 10	.....	.....	124 87
Summer Street.....	30 63	4 50	.....	132 70	4 70	95 63	46 70	.....	92 50	.....	.....	407 36
Thayer Street Grammar.	53 09	182 19	13 80	178 95	64 13	.....	74 44	.....	16 18	5 20	468 60	1,056 58
Thayer Street Primary..	29 13	11 05	.....	50 02	8 64	.....	11 30	.....	13 63	1 50	.....	125 27
Thurber's Avenue.....	11 30	12 89	7 39	.....	4 45	.....	39 20	.....	1 95	.....	.....	77 18
Union Avenue.....	13 87	31 47	5 60	107 75	37 99	15 79	214 68	.....	2 51	.....	.....	429 66
Veazie Street.....	10 00	10 75	63	32 59	94 36	.....	66 89	.....	12 12	.....	1 57	228 91
Vineyard Street.....	32 65	4 75	15	.....	40 26	3 74	908 05	.....	4 05	.....	146 95	1,140 60
Warren Street.....	33 80	11 96	.....	9 51	99 55	.....	94 67	.....	2 20	.....	.....	251 69
Willow Street	62 16	442 50	2 45	375 00	135 57	5 63	46 55	.....	116 71	.....	91 10	1,278 67
Willard Avenue.....	2 50	1 50	.....	.....	19 85	.....	114 34	.....	1 83	.....	.....	140 02
Total.....	$2,926 80	$4,613 37	$241 08	$3,375 14	$4,036 07	$712 32	$8,688 30	$93 68	$2,194 28	$25 70	$3,394 64	$30,201 38

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TABLE OF EXPENDITURES ON FIRE STATIONS.

Fire Stations.	Carpenters, Labor and Stock.	Painters, Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ventilation.	Furniture, Carpeting and Matting.	Grading, Concreting and Lot Improvements.	Janitors' and Cleaning Supplies.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
Hose No. 1, Exchange Place	$383 47	$544 47	$27 54	$80 65	$351 10	$21 17	$32 87	$3 70	.....	.....	.....	.....	$1,444 97
Hose No. 2, South Main street	24 41	4 99	.....	108 03	173 55	9 40	.....	.....	.....	$12 25	.....	.....	332 63
Hose No. 3, Pond street	143 27	20 75	14 50	9 25	53 77	.....	234 10	.....	.....	.....	.....	.....	475 64
Hose No. 4, Mill street	92 31	263 23	40 46	114 16	93 99	4 25	56 03	.....	.....	.....	.....	.....	663 43
Steamer No. 5, Olney street	225 35	267 24	25 71	21 65	21 93	19 63	24 83	.....	$98 40	.....	$1 38	$69 40	775 52
Hose No. 6, Benevolent street	153 68	3 40	7 65	.....	135 00	9 56	22 30	.....	.....	.....	.....	.....	231 59
Hose No. 7, Richmond street	238 32	606 40	27 67	316 08	87 85	.....	1,059 71	.....	66 00	.....	.....	.....	2,402 03
Steamer No. 8, Harrison street	370 06	135 35	57 31	86 11	179 70	.....	132 96	.....	537 95	.....	.....	.....	1,499 44
Hose No. 9, Atwell's avenue	405 43	307 86	50 81	176 30	27 08	2 30	665 09	.....	71 75	.....	.....	.....	1,706 62
Steamer No. 10, Burnside street	68 60	6 19	5 42	.....	29 15	4 60	50 90	.....	47 55	.....	.....	.....	212 41
Hose No. 11, Public street	27 18	16 50	1 83	71 43	166 40	.....	.....	.....	.....	.....	.....	.....	283 34
Steamer No. 12, Smith and Orme streets	23 43	15 74	98	.....	47 03	.....	29 52	.....	.....	.....	.....	.....	116 70
Hose No. 13, Central street	92 72	10 99	19 30	.....	124 26	.....	10 05	.....	.....	.....	.....	.....	257 32
Steamer No. 14, Putnam street	262 74	119 59	28 74	366 43	179 23	9 11	54 06	.....	36 33	.....	.....	.....	1,056 23
Hose No. 15, Wickenden street	37 36	2 05	50	8 35	25 44	.....	35	.....	.....	.....	.....	.....	74 05
Steamer No. 16, Branch avenue	120 41	17 50	.....	50 25	1 00	.....	17 86	1 40	407 95	.....	.....	.....	616 37
Hose No. 17, North Main street	106 98	208 15	3 23	353 40	33 52	13 20	16 18	.....	16 05	.....	.....	.....	750 71
Hose No. 18, Broad street	123 60	156 16	63 37	.....	70 63	.....	21 50	.....	1 50	.....	.....	.....	436 76
Hose No. 20, Manton avenue	104 74	108 27	.....	.....	12 16	.....	31 09	.....	.....	.....	.....	8 00	264 26
Fire Station No. 19, Haymarket street	59 32	29 27	7 35	2 75	114 60	.....	2 13	.....	2 00	.....	.....	.....	217 42
Fire Station No. 2 (old), South Main street	8 31	5 10	.....	.....	76 95	.....	8 35	.....	.....	.....	.....	.....	98 71
Hook and Ladder No. 5, Public street	20 90	15 79	1 00	.....	2 00	.....	24 00	.....	.....	.....	.....	.....	63 69
Hook and Ladder No. 4, Wickenden street	84 51	2 45	40 74	.....	82 54	76	3 00	.....	.....	.....	.....	.....	214 00
Fire Station No. 4, Mill street (old)	.....	60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60
Fire Department Bell Towers	70 00	75 00	.....	10 70	.....	.....	.....	.....	.....	.....	.....	223 00	378 70
Total	$3,247 10	$2,942 04	$424 11	$1,775 54	$2,088 88	$93 98	$2,396 88	$5 10	$1,285 48	$12 25	$1 38	$300 40	$14,573 14

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TABLE OF EXPENDITURES ON POLICE STATIONS.

Police Stations.	Carpenters, Labor and Stock.	Painters, Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ventilation.	Furniture, Carpeting and Matting.	Grading, Concreting and Lot Improvements.	Janitors' and Cleaning Supplies.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
Central Station No. 1, Fountain street....	$180 39	$15 10	$108 14	$187 15	$237 92	$15 00	$68 87	.....	$15 00	.....	.....	$14 29	$841 86
Central Station No. 1, (old), Canal street..	154 84	268 90	2 38	201 88	423 65	19 68	279 52	.....	.....	$7 00	.....	.....	1,357 85
Station No. 2, Chalkstone avenue	53 29	12 95	4 45	8 25	58 05	9 13	180 62	.....	2 50	.....	.....	.....	329 24
Station No. 3, Wickenden street.....	139 93	22 95	14 25	.....	372 54	.....	23 84	$25 20	17 00	.....	.....	.....	615 71
Station No. 4, Knight street.....	28 45	4 47	4 47	66 51	62 94	1 44	61 01	.....	.....	.....	.....	.....	229 29
Station No. 5, Plain street...	20 95	134 56	11 80	20 45	634 26	2 31	49 48	.....	3 15	.....	.....	.....	876 96
Station No. 6, Chaffee street.....	58 74	142 05	8 30	123 55	41 67	5 00	27 83	.....	204 38	.....	$6 13	30	617 95
Station No. 7, Oakland street.....	.....	2 50	.....	.....	87 15	5 32	29 56	2 06	.....	.....	.....	.....	126 59
Total	$636 59	$603 48	$153 79	$607 79	$1,918 18	$57 88	$720 73	$27 26	$242 03	$7 00	$6 13	$14 59	$4,995 45

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MISCELLANEOUS EXPENDITURES.

Names.	Carpenters, Labor and Stock.	Painters, Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ventilation.	Grading, Concreting and Lot Improvements.	Janitors' and Cleaning Supplies.	Electric Work and Miscellaneous.	Total.
Keeper's House, Central or Red Bridge	$6 25		$3 03	$169 60							$178 88
Ward Room Building, Beacon Avenue	7 50	$1 25			$180 79		3 50				193 04
Ward Room and School Building, Harrison Street	6 41	3 00	25 00	4 69			11 91	$11 00			62 04
Ward Room Building, Pallas Street		60									60
Ward Room and Evening School Building, Academy Avenue	3 75	1 25			17 57		15 35				37 92
Store House and Work Shop	16 63	7 00	55				217 11		$69 00	$72 59	382 88
Lamp Department Building	29 75					$18 84	14 32				62 91
Bath Houses	814 03	5 84	2 56		13 90				2 65	150 00	988 98
Board of Trade Building				422 65							422 65
City Stables	67 17	6 30									73 47
Highway Department, Buildings and Fences	21 25	5 20									26 45
Bleachery Estate		16 50									16 50
Total	$972 74	$46 94	$31 14	$596 94	$212 26	$18 84	$262 22	$11 00	$71 65	$222 59	$2,446 32

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RECAPITULATION OF EXPENDITURES.

NAMES.	Carpenters, Labor and Stock.	Painters, Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ventilation.	Furniture, Carpeting and Matting.	Grading, Concreting and Lot Improvements.	Janitors and Cleaning Supplies.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
School Buildings	$2,926 80	$4,613 37	$241 08	$3,275 14	$4,036 07	$712 32	$8,688 30	$93 68	$2,194 28	.....	$25 70	$3,394 64	$30,201 38
Fire Dept. Buildings.....	3,247 10	2,942 04	424 11	1,775 54	2,088 88	93 98	2,396 88	5 10	1,285 48	$12 25	1 38	300 40	14,573 14
Police Dept. Buildings.....	636 59	603 48	153 79	607 79	1,918 18	57 88	720 73	27 26	242 03	7 00	6 13	14 59	4,995 45
Miscellaneous Buildings...	972 74	46 94	31 14	596 94	212 26	18 84	262 22	.....	11 00	71 65	.....	222 59	2,446 32
Total.....	$7,783 23	$8,205 83	$850 12	$6,255 41	$8,255 39	$883 02	$12,068 13	$126 04	$3,732 79	$90 90	$33 21	$3,932 22	$52,216 29

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In addition to the foregoing statement of expenditures is the following work done from time to time, during the year, by order of the City Council, and paid for from the appropriation for repairs to public buildings:

City Council authorizes the Joint Standing Committee on City Property to place suitable washout closets and urinals in the basement of the Harriet street school:		
Paid labor pay roll, ...	$3 00	
" during the year, ...	3 00	$3 00
" per last report, ...	1,358 45	
Total cost equipping Harriet street school, ...	$1,361 45	
City Council directed the Joint Standing Committee on City Property to cause the barn attached to the second police station to be altered and enlarged and paid for from appropriation for repairs to public buildings.		
Paid for alterations and enlargement, ...	$3,500 00	
" during the year, ...	3,500 00	3,500 00
Total cost of alterations and enlargement, ...	$3,500 00	
The City Council authorized the Joint Standing Committee on City Property to remove the privy vaults of all school houses situated on		
Amount carried forward, . . .		$3,503 00

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Amount brought forward, ...		$3,503 00
sewered streets, and to make the necessary sewer connections, the same to be charged to the appropriation for public buildings.		
Paid J. Frank Read & Co.. sewer Slater avenue school estate, .	$100 00	
" Henry R. Chadsey & Co., sewer Harris avenue school estate, ...	249 13	
" during the year, . . .	349 13	349 13
" as per last report, . . .	18,129 49	
Cost of connecting the several school estates to date, . .	$18,478 62	

ELECTION EXPENSES.

Paid carpenters and painters, labor and stock, ...	$19 46	
" during the year, . . .	19 46	19 46
Total cost during the year, . .	$19 46	
The following bills and items in bills were allowed in committee, and paid for from the appropriation for public buildings, and are not properly chargeable to any building:		
Paid City of Providence, blacksmith and harness work, from Oct., 1896, to Nov. 30, 1897, . .	$85 77	
Amounts carried forward, . .	$85 77	$3,871 59

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Amounts brought forward, . .	$85 77	$3,871 59
Paid T. W. Rounds Co., harness, halter and rope, . . .	25 25	
" J. A. Whaley, oates, . .	11 00	
" J. Underwood, 1 brown and 1 black mares, ...	310 00	
" Charles C. Newhall & Co., blankets, fly net, bit collar, robes, etc., ...	27 25	
" A. C. Buchanan, professional service, ...	12 00	
" Lewis L. Fales, repairing buggy, wagon, etc., . . .	75 10	
" Philip B. Durfee, stable boy, .	2 00	
" Albert T. Mansfield, stable boy, ...	30 00	
" Lewis L. Fales, one top buggy, and repairing concord buggy,	138 55	
" J. N. Folsom & Co., new wheels for buggy and shoeing horses,	37 50	
" City of Providence, boarding 3 horses, from Oct. 1, 1896, to Dec. 31, 1897, . . .	632 29	
" James Mason, shoeing horse, .	1 25	
" P. F. & J. B. McGinn, shoeing horse, ...	2 00	
" Belcher & Loomis, sleigh bells,	1 00	
" S. C. Evans, shoeing horse, .	2 00	
" Providence Lithograph Co., note heads, ...	11 00	
" Providence Telephone Co., superintendent's residence, .	41 34	
" Bugbee, Thompson & Co., office supplies, ...	43	
" Akerman & Co., ledger, etc., .	33 59	
Amounts carried forward, . .	$1,479 32	$3,871 59

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Amounts brought forward, . .	$1,479 32	$3,871 59
Paid Remington Printing Co., bill heads, ...	10 60	
" George H. Pettis, sealing city scales, ...	1 50	
" Thomas H. Early & Co., on account of ashes and cesspool contracts, ...	2,549 99	
" Albert F. Davis, office supplies, ...	40 43	
" Philip B. Durfee, cash paid car fares, ...	2 75	
" Albert T. Mansfield, cash paid for car fares, carpenters and painters, expressage, stamps, etc., ...	203 33	
" Charles M. Gross & Co., typewriter ribbon, etc., . . .	2 75	
" William J. Drake, services as an electrical expert, . .	15 00	
" Carter Ink Co., typewriter, ribbon, etc., ...	1 50	
" Fred. E. Field, plans, specifications, and estimates, for alterations, Police Station No. 6,	137 50	
" Richard J. Baker, painting flagstaff, Field's Point, . .	10 00	
" John Holland, postal cards and printing, for horse stolen, .	2 33	
" Public Works Department, labor pay roll, paving around City scales, ...	135 35	
" George R. Sherman, sealing city scales, ...	3 00	
Amounts carried forward, . .	$3,116 03	$3,871 59

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Amounts brought forward, . .	$3,116 03	$3,871 59
Paid Smith Premier Typewriting Co., exchange of typewriter, .	59 38	
" Sampson, Murdock & Co., directories, ...	10 00	
" J. B. Chassued, 1 flexible Wigley auger, . . .	5 00	
" Michael Lyons, cartage, .	6 00	
" J. Healey, 1 force pump, .	1 50	
" Thomas Curley, cartage, .	90 00	
" O. A. Carleton, 1 city tax book, ...	1 25	
" labor pay roll and stock, painting City Weigher's building, .	6 92	
" Morgan Envelopc Co., labor pay envelopes, . . .	3 25	
" W. E. Barrett & Co., Brooms for the City Weigher's building, ...	90	
" Oliver Johnson & Co., salammoniac, ...	1 00	
" Providence Journal Co., removal ashes and night soil, .	14 62	
" Providence Journal Co., heatingMesser andVineyard streets schools, ...	10 55	
" Providence News Co., removal ashes and night soil, . .	12 54	
" Providence News Co., heating Messer and Vineyard streets schools, ...	6 84	
" Providence Telephone Co.,rent of telephone from Sept. 1, 1897, to Sept. 1, 1898, superintendent's office and residence, .	240 00	
Amounts carried forward, . .	$5,065 10	$3,871 59

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Amounts brought forward, . .	$5,065 10	$3,871 59
Paid rent of 3 sets of private telephones, with maintenance of lines, from Sept. 1, 1897, to Sept. 1, 1898, . . .	65 00	
" Snow & Farnham, bill heads, slips, copies of contract, etc.,	61 63	
" George M. Kingsbury, automatic fastener, . . .	2 00	
" Heffernan, Rogers & Kempton, sign removal, city weigher,	1 25	
" American Supply Co., measures, etc., ...	3 15	
" Albert T. Mansfield, superintendent, January 1, 1897, to December 31, 1897, .	1,700 00	
" Louis E. Cady, salary from January 1, 1897, to December 31, 1897, ...	1,300 00	
" John E. Spencer, foreman, salary from January 1, 1897, to December 31, 1897, . .	1,092 00	
" Robert A. Walker, teamster, January 1, 1897, to December 31, 1897, ...	540 00	9,830 13
		$13,701 72
" Desmond Fitzgerald, Ormand E. Fitzgerald, Ormand E. Fitzgerald, agent, rent of land, South Main street, . .	275 00	275 00
Add amount as per table, . .		52,216 29
		$66,193 01

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SPECIAL WORK.

The extraordinary expenses of this department are those for the erection of new buildings, additions to old, and such other improvements as are made from time to time, by order of the City Council. During the past year the statement of this account is as follows:

The buildings below enumerated are in process of erection or have been completed under the direction of the Joint Standing Committee on City Property, and paid for from the special appropriation for school houses and lots. Loan account:

UNION AVENUE SCHOOL BUILDING.		
Paid for furnishing, ...	$75 80	
" during the year, ...	$75 80	$75 80
" as per last report, ...	$22,580 40	
Total cost of building and furnishing, ...	$22,656 20	
RUGGLES STREET SCHOOL BUILDING.		
Paid for furnishing, ...	$121 94	
" during the year, ...	$121 94	121 94
" as per last report, ...	$21,667 73	
Total cost of building and furnishing, ...	$21,789 67	
EAST AVENUE SCHOOL BUILDING.		
Paid for furnishing, ...	$235 04	
" for construction, ...	$14,517 12	
" during the year, ...	$14,752 16	14,752 16
Cost of building and furnishing to date, ...	$14,752 16	
Amount carried forward, ...		$14,949 90

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Amount brought forward, ...		$14,949 90

MOUNT PLEASANT SCHOOL BUILDING.

Paid for construction, . . .	$14,473 92	
" for furnishing, . . .	142 49	
" during the year, . . .	$14,616 41	14,616 41
Cost of building and furnishing to date, ...	$14,616 41	

CLASSICAL HIGH SCHOOL BUILDING, SOUTH EAST CORNER SUMMER AND POND STREETS.

Paid for construction, . . .	$60,574 88	
" for furnishing, . . .	26,149 47	
" during the year, . . .	$86,724 35	86,724 35
" as per last report, . . .	$117,624 26	
Cost of building and furniture to date, ...	$204,348 61	

BROAD STREET GRAMMAR SCHOOL BUILDING.

Paid for construction, . . .	$37,579 20	
" for furnishing, . . .	16,586 39	
" during the year, . . .	$54,165 59	64,165 59
" as per last report, . . .	$38,011 64	
Cost of building and furnishing to date, ...	$92,177 23	
Amount carried forward, . .		$180,456 25

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Amount brought forward, . .		$180,456 25

EAST SIDE HIGH SCHOOL BUILDING, CORNER ALUMNI AVENUE AND HOPE STREET.

Paid for construction, . . .	$66,708 42	
" for furnishing, . . .	8,123 83	
" during the year, . . .	$74,832 25	74,823 25
" as per last report, . . .	38,727 94	
Cost of building and furnishing to date, ...	$113,560 19	

The City Council directed the Joint Standing Committee on City Property and Education to submit plans, specifications, and estimates of cost, of a brick six-room primary and kindergarten school building, to be charged to the appropriation for school houses and lots, loan account.

Paid Providence News Co., . .	$28 60	
" Providence Journal Co., .	38 40	
" Angel & Swift, . . .	150 00	
" during the year, . . .	$217 00	217 00
Cost of plans and specifications to date, ...	$217 00	

City Council authorized the Joint Standing Committee on City Property to equip the Bridgham street, Benefit street, Arnold street, Carpenter street, Elm street, Friend-

Amount carried forward, . .		$255,496 50

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Amount brought forward, . .		$255,496 50
ship street, Elmwood avenue, Manning street, Ring street and State street, with suitable washout closets and urinals, to be charged to the appropriation for contingencies.		
Paid labor pay roll, meter boxes, .	$3 75	
" Thomas Phillips Co., mineral wool, ...	2 42	
" during the year, . . .	$6 17	6 17
" as per last report, . . .	22,044 42	
Total cost for equipping schools, .	$22,050 59	
The City Council directed the Joint Standing Committee on City Property to remove the old city building used by the City Weigher at the Haymarket to the city lot on Canal street, and to purchase and install therein a new thirty-ton scale, the expense thereof to be charged to the appropriations for contingencies.		
Paid James H. Camning, building pit for scale, ...	$180 00	
" Fairbanks Company, thirty-ton scale, ...	445 00	
" Albert T. Mansfield, freight on scale, ...	3 84	
" Lemuel R. Titus, moving city scale building, . . .	20 00	
" Phenix Iron Foundry, iron		
Amounts carried forward, . .	$648 84	$255,502 67

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Amounts brought forward, . .	648 84	$255,502 67
borders, etc., ...	96 80	
" James A. Potter & Co., hard pine lumber, ...	54 35	
" during the year, ...	$799 99	799 99
Total cost of installing new scale and moving the old building, .	$799 99	

The City Council directed the Joint Standing Committee on City Property to fit up suitable quarters in the old Central police station on Canal street for the Sealer of Weights and Measures, and Superintendent of street signs and numbers, and to remove thereto the office furniture and appurtenances of said department, the expense thereof to be charged to the appropriation for contingencies.

Paid labor pay roll, carpenters and painters, ...	$183 00	
" R. I. Lumber Company, lumber, ...	7 44	
" Toye & Holmes, marble slab,	3 25	
" William Millen, plumbing, etc.,	227 54	
" H. A. Grimwood & Co., lumber, ...	42 76	
" Perkins Brothers, flooring, etc.,	32 65	
" William Condry, mason work,	125 49	
" Anthony & Cowell Co., shades,	4 60	
" L. Vaughn & Co., black walnut		
Amounts carried forward, . .	$626 73	$256,302 66

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Amounts brought forward, . .	$626 73	$256,302 66	
ballusters, ...	1 45		
" E. T. George & Co., hardware,	4 41		
" Starkweather & Williams Co., shellac, ...	72 52		
" Barker, Chadsey & Co., bolts,	25		
" New England Butt Co., keys,	1 50		
" Potter & Gardiner, black walnut, ...	4 20		
" Heffernan, Rogers & Kempton, sign, ...	9 60		
" T. W. Waterman, cartage, .	7 25		
" John R. Shirley & Son, chandelier & globe, . . .	5 50		
" during the year, . . .	$733 41		733 41
Total cost of fitting and removal, .	$733 41		

The following sums were paid for concreting sidewalks adjoining school houses situated on curbed streets, the same to be taken from the appropriation for contingencies:

Paid Julian A. Reade, Slater avenue, ...	$101 20		
" J. William Moore, Slater avenue, ...	5 00		
" during the year, . . .	$106 20		106 20
" as per last report, . . .	2,932 46		
Total cost of concreting to date, .	$3,038 66		
Amount carried forward, . .		$257,142 27	

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Amount brought forward, . . .		$257,142 27
Furnishing national flags and poles for same, for all school premises, the expense thereof to be charged to the appropriation for contingencies:		
Paid L. F. Pease & Co., 3 flag poles, ...	$159 00	
" 33 gilt balls, ...	79 20	
" painting 33 poles, . . .	33 00	
" during the year, . . .	$271 20	271 20
" as per last report, . . .	3,067 70	
Cost of flag poles and flags to date,	$3,338 90	
Fitting up voting places and providing booths therefor, for use at elections, done under the direction of the Joint Standing Committee on City Property, and paid for from the appropriation for elections:		
Paid Heffernan, Rogers & Kempton, signs, ...	$6 25	
" Providence Gas Co., . .	28 56	
" Narragansett Electric Lighting Co., ...	13 85	
" labor pay roll, carpenters and painters, ...	412 84	
" David Burton, gas piping, etc.,	38 87	
" C. P. Darling & Co., sawdust,	2 80	
" Lemuel R. Titus, moving		
Amounts carried forward, . .	$503 17	$257,413 47

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Amounts brought forward, . .	$503 17	$257,413 47
booths, ...	63 00	
" Davis N. Graffam, repairing clocks, ...	4 25	
" A. A. Sammis, hardware, .	88	
" George D. Lansing & Son, lumber, ...	1 63	
" Standard Oil Co., kerosene oil,	3 38	
" Fisher & Grinnell, painting Market square booth, . .	9 60	
" J. William Moore, covering roof to booths, . . .	35 30	
" Providence Coal Co., fuel, .	10 35	
" A. A. Presbrey & Son Co., sawdust, ...	2 60	
" Wood, Bicknall & Potter, chimneys, ...	5 10	
" Thomas Curley, cartage, .	22 00	
" Perkins Brothers, door 6 ward " booth, ...	2 25	
" William Millen, fitting up " stoves, ...	4 90	
" Michael Lyons, cartage, .	9 90	
" City of Providence, use of water for several ward rooms,	123 00	
" Drake, Payson & Whittier Electric Co., repairing electrical work, 4th ward room, .	2 60	
" Barker, Chadsey & Co., hardware, ...	12	
" City of Providence water for several ward rooms, . .	137 00	
		941 03
		$258,354 50
Amount as per table and general expense account, . . .		66,193 01
Total expenditures for year 1897, .		$324,547 51

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PUBLIC BUILDING DEPARTMENT.

INVENTORY OF STOCK.

(*Under control of Superintendent.*)

STABLE ACCOUNT.

One horse and harness,	$180 00	
One horse and harness,	150 00	
One horse and harness.	120 00	
One harness,	5 00	
One top buggy,	120 00	
One top buggy,	75 00	
One Concord buggy,	75 00	
Two express wagons,	125 00	
One set bob runners,	10 00	
Two fur robes,	50 00	
One lumber reach,	35 00	
One sleigh,	10 00	
Two plush robes,	10 00	
Three street blankets,	10 00	
Three barn blankets,	3 00	
		$978 00

CARPENTERS' STOCK.

School furniture on hand, (second hand),	$200 00	
Nails and spikes,	55 00	
Lumber,	794 35	
One furnace,	10 00	
Jack, wood, and clamp screws,	10 00	
Stoves and pipe,	20 00	
Shovels, hoe, and rake,	5 00	
Cross-cut saw,	4 00	
Vises and augers.	8 00	
Boring machine,	6 00	
Amounts carried forward,	$1,112 35	$978 00

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Amounts brought forward,	$1,112 35	$978 00
One pair cutting shears,	5 00	
Three iron bars,	2 00	
Grindstone and frame,	12 00	
Miscellaneous tools and hardware.	158 00	
213 gross wood screws,	40 74	
		$1,330 09

PAINTERS' STOCK.

Alcohol,	$149 50	
White lead,	101 75	
Window glass,	321 28	
Turpentine,	60 95	
Shellac,	289 00	
Spar varnish,	150 00	
Colors and miscellaneous paints	107 33	
Paint brushes,	60 20	
Painters' staging, ladders and steps,	50 00	
Platform scales,	8 00	
Paint pots and oil cans,	10 00	
Glaziers' diamonds,	16 00	
Blackboard paper,	5 00	
Blackboard slating,	80 00	
Billings, King & Co., paint,	5 00	
Linseed oil,	120 78	
Diamond liquid paint,	50 00	
Bronze powders,	25 00	
		$1,609 79

SUPPLIES IN STORE ROOM.

600 Ink wells,	$66 00	
17 Sweeping brushes,	19 12	
10 Scrub brushes,	2 50	
Amounts carried forward,	$87 62	$3,917 88

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Amounts brought forward, . .	$87 62	$3,917 88
12 Mop sticks, ...	3 00	
40 Long handle scrub brushes, .	15 20	
30 Shovels, ...	20 10	
11 Rakes, ...	3 85	
10 Lantern globes, ...	1 20	
1 Cotton mop, ...	17	
2 Waste baskets, ...	1 26	
6 Feather dusters, ...	4 80	
50 Feet of hose, ...	5 50	
5 Pulp basins, ...	1 05	
3 Pieces oil cloth, ...	42	
24 Coir mats, ...	18 00	
3 Thermometers, ...	1 33	
50 Pounds of cement, ...	2 50	
1 Stove shovel, ...	12	
20 Soap dishes, ...	3 20	
2 Pounds of cord, ...	66	
12 Wall brushes, ...	17 50	
9 Hoes, ...	3 42	
1 Cuspadore, ...	73	
8 Ice picks, ...	4 32	
6 Boxes cord, ...	10 08	
133 Pounds manilla rope, . .	11 97	
14 Handle brushes, ...	4 62	
28 Gas globes, ...	4 64	
3 Second clocks, ...	15 00	
600 Feet ½-inch weather strips, .	24 00	
200 Feet ¾-inch weather strips, .	8 00	
11 Coal hods, ...	2 98	
22 Large mats, ...	88 00	
35 Ash cans, ...	89 60	
80 bars of soap, ...	4 00	
2 pairs door springs, ...	3 00	
Amounts carried forward, . .	$361 89	$3,917 88

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Amounts brought forward, . .	$361 89	$3,917 88
Toilet paper	1 75	
200 feet wire screen cloth, . .	2 50	
4 whitewash brushes, . . .	8 00	
28 brooms, ...	7 00	
9 snow shovels, ...	2 25	
8 snow shovels, iron, . . .	2 67	
12 cans of glue, ...	4 80	
		$490 86
		$4,408 74

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RECEIPTS FROM PROPERTY SOLD.

Mrs. R. T. Slade, 24 desks and chairs, ...	$24 00
Alpha C. J. Learned, lot of land westerly side Charles street, easterly side of Back street, . . .	3,191 30
Alpha C. J. Learned, one lot of land westerly side of Charles street, easterly side of Back street, . .	2,695 70
James Barlow, lot of land southerly side of Richardson street, between Prairie avenue and Ocean street,	298 70
Sarah A. McCann, lot No. 6, map 2, south-easterly corner of Cypress and Knowles street, . . .	664 00
Thomas Mulcahey, lot No. 32, southerly side Cypress street, . .	950 79
Edward Murphy, lot easterly side of Knowles and Duncan avenues, .	742 00
John McCarron, lot easterly side of Ridge street, between Gesler and Swiss streets, ...	816 03
Michael McLoughlin, lot No. 7, on Ridge street, ...	460 00
Benjamin F. Harrington, lot of land and buildings north-westerly corner of Potter's and Elmwood avenues, ...	5,525 00
David Crankshaw, lot of land on the easterly side of Ridge street, between Gesler and Swiss streets, .	1,047 54
Thomas Mulcahey, lot No. 31, south-	
Amount carried forward, .	$16,415 06

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Amount brought forward, .	$16,415 06	
erly side of Cypress street, near North Main street, . . .	900 60	
Frank P. Burlingame, 1 flag pole, .	10 00	
Play Ground Fund, 5 lights of glass setting same, Charles street School, ...	5 55	
F. A. Hillery, 1 old furnace, 3 registers and borders, . . .	6 50	
		$17,337 71

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SIXTIETH QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING DECEMBER 31, 1897.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., January 1, 1898.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter IV. of the ordinances, the Commissioner of Public Works respectfully presents the sixtieth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending December 31, 1897:

WATER WORKS.

December 13th, the proposal of John W. Lyon to furnish and deliver taps, stops, and plugs, was accepted. Amount, $883.80.

December 15th, the proposal of Coffin Valve Company to furnish and deliver various sizes of water gates, was accepted. Amount $2,624.00.

December 17th, the proposal of Warren Foundry and Machine Company, of Phillipsburg, N. J., to furnish and deliver about nine hundred and seventy-six tons of cast iron water pipes, was accepted and a contract subsequently executed. Amount $17,967.23.

The average daily consumption of water during the last quarter was 8,563,376 gallons, and the average daily consumption for the year 1897 was 8,635,081 gallons.

Water pipes were laid during the quarter as follows:

16-INCH.

In Chatlett street, in town of Johnston..... 274.56 feet.

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12-INCH.

In Egan street; in Chatlett street and Hartford avenue, in town of Johnston; and in Park avenue, in town of Cranston	2,608.50 feet.

8-INCH.

In Tell street; Douglas and Wealth avenues; in Dyer and Hartford avenues, in town of Johnston; and in Woodbine street, in town of Cranston	1,216.79 feet.

6-INCH.

In Dyerville road; Alton, Babbitt, Berkley, Black, Cactus, Exeter, Fisk, Ford, Ladd, Peace, Power, Sussex, Tell, Vale, Waverly and York streets; Jefferson, Mt. Pleasant, Summit, Wealth and Wisdom avenues; in Barrows, Horton, Plainfield, Pioneer and Reid streets; Alverson, Laurel Hill, Miller and Sheldon avenues, in town of Johnston; in Curtis, Irving and Smith streets, in town of Cranston	5,810.66 feet.
Total	9,910.51 feet.

or, 1.876+ miles.

Water pipes were removed during the quarter, as follows:

6-INCH.

From Chatlett street, in town of Johnston	414.63 feet.

or, .078+ mile.

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	59,893.04 feet.
24-inch	43,553.03 feet.
20-inch	9,626.59 feet.
16-inch	34,084.95 feet.
12-inch	90,321.63 feet.
10-inch	15,050.47 feet.
8-inch	255,983.85 feet.
6-inch	1,118,322.84 feet.
Total	1,636,920.40 feet.

or, 310.022+ miles.

Water pipes were laid for the Special Water Service for Fire Protection during the quarter, as follows:

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16-INCH.

In Dyer street	42.39 feet.

or, .008+ mile.

Statement of sizes and lengths of pipe laid since the commencement of the work:

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total	29,408.71 feet.

or, 5.569+ miles.

Seven fire hydrants have been set during the quarter, one in each of the following locations:

Alabama avenue, north side, 433 feet east of Virginia avenue.
Babcock street, north side, 220 feet west of west line of Bernard street.
Black street, east side, 80 feet north of north building line of Babbitt street.
Chatlett street, Johnston, east side, on south building line of Congdon avenue.
Horton street, Johnston, east side, 286 feet south of Harlan street.
Peace street, south side, 258 feet east of east building line of Bucklin street.
Power street, south side, southwest corner of Gano street.

The total number of fire hydrants, exclusive of hydrants for special service for fire protection, is now seventeen hundred and eighty-seven — seventeen hundred and sixteen flush, and seventy-one post hydrants.

The total number of fire hydrants on the Special Water Service for Fire Protection is eighty-nine.

During the quarter, two hundred and forty-nine water meters were set of which number ten were to replace other meters. The use of seven meters was discontinued.

The following meters were in use at the close of the quarter:

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Kind.	Size.								Total.
	⅝-in.	¾-in.	1-in.	1½-in.	2-in.	3-in.	4-in.	6-in.	
Ball & Fitts, piston	3,230	640	155	26	8	.....	.....	.....	4,059
Ball & Fitts, rotary	.....	.....	15	16	1	3	2	.....	37
Crown	7,304	753	229	101	27	15	17	.....	8,446
Empire	26	8	7	4	3	.....	.....	.....	48
Fales, Jenks & Sons	.....	.....	1	.....	.....	.....	.....	.....	1
Gem	.....	.....	.....	.....	3	7	5	1	16
Thomson	2,516	355	75	54	22	7	7	4	3,040
Trident	28	.....	.....	.....	.....	.....	.....	.....	28
Worthington	1	1	.....	.....	1	.....	1	.....	4
	13,105	1,757	482	201	65	32	32	5	15,679

Five plumbers' licenses were issued during the quarter, making the total number one hundred and nineteen, all of which expired December 31, 1897.

Nine hundred permits to do plumbing work were issued during the quarter.

One hundred and eighty-one applications for water were made during the quarter, making the total number December 31, 1897, twenty-two thousand four hundred and forty-one.

The number of new service stops opened during the quarter was one hundred and sixty-nine.

The total number of service stops opened to December 31, 1897, inclusive, was twenty-one thousand seven hundred and thirty-three. The number in actual use December 31, 1897, was nineteen thousand nine hundred and ninety-three.

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The following is a list of drinking troughs supplied with water by the Providence Water Works, viz.:

Angell street, junction South Angell.
Atwells avenue, junction of Harris.
Bassett street, off of Hospital.
Branch avenue and Abbott street.
Broad street, junction of Eddy.
Broadway junction of Westminster street.
Canal street, near Exchange place.
Canal street, near railroad crossing.
Charles street, corner Back.
Charles street and Branch avenue.
Chalkstone avenue, junction of Manton.
Chalkstone avenue, opposite Academy.
Douglas avenue and Chalkstone.
Douglas avenue and Admiral street.
Dyer street, near Crawford street bridge.
Dyer street, junction of Eddy.
Elmwood avenue and Public street.
Federal street, junction of Kenyon.
Fountain street, junction of Carpenter.
Manton avenue, junction of Atwells.
Miller avenue, (Roger Williams Park).
North Main street, junction of Benefit.
Prairie avenue, junction of Broad street.
Point street, junction of Friendship.
Point street, near the bridge.
Potters avenue, corner of Cranston street.
Randall square.
Reservoir avenue, junction of Pontiac street.
Swan Point road.
Smith street, junction of Chalkstone avenue.
South Main street, junction of Wickenden.
Thayer street, junction of Hope.
Trinity square.
Waterman street, corner of East River.
Westminster street, junction of Cranston.
West Exchange street, near Exchange place.
Weybosset street, near Mathewson.
Wickenden street, corner of Governor.

TOWN OF CRANSTON.

Cranston street, junction of Phenix road.
Park avenue, corner of Doric avenue.

TOWN OF JOHNSTON.

Hartford avenue, junction of Old Killingly road.
Manton avenue, near Killey.
Plainfield street, junction of Dyer avenue.

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The following is a list of street sprinklers ready for use on the Providence Water Works, viz.:

Aborn street, near junction of Atwells avenue.
America street, near Atwells avenue.
Barton street, corner of Broadway.
Bradford street, near Broadway.
Branch avenue, near junction of North Main street.
Benefit street, foot of Angell.
Benefit street, between North Main and Halsey.
Beacon avenue, near Friendship street.
Broad street, near Gallup.
Camp street, between Cypress and Larch.
Cranston street, east side of railroad bridge.
Crary street, between Eddy and Hospital.
Codding street, near Westminster.
Dexter street, opposite Division.
Doyle avenue, near East avenue.
Doyle avenue, near North Main street.
Dike street, near Bough.
Exchange place, east end.
Exchange place, west end.
Governor street, near Waterman.
Harris avenue, near Atwells.
Hayward street, south of Somerset.
Hope street, junction of Thayer.
Hope street, corner of Wickenden.
John street, corner of Benefit.
Knight street, corner of Grove.
Manning street, near Brook.
Melrose street, near south corner of burying ground.
Moore street, corner of Broad.
North Main street, corner of Thomas.
North Main street, near Mill.
Oakland street, corner of Elmwood avenue.
Olney street, near Camp.
Orms street, near Back.
Oxford street, corner of Eddy.
Paine street, between Cranston and Messer.
Potter street, near Pine.
Power street, west of Hope.
Promenade street, west of Gaspee.
Promenade street, west of Holden.
Public street, about 200 feet east of Temple.
Reservoir avenue, opposite Atlantic.
Roger Williams Park, near Broad street, (private).
Salem street, between Potters avenue and Lilac street.
Smith street, near Oakland avenue.
Smith street, near Shaffer.
Smithfield avenue, north of Branch.

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Smithfield avenue, north of the Moshassuck river.
Smithfield avenue, north of the railroad bridge.
Transit street, between South Water and South Main.
Washington street, corner of Dean.
Wayland avenue, south of Medway street.
West Friendship street, near Broad.
Weybosset street, opposite Abbott Park place.
Willow street, west of Messer.
Winter street, near Pond.

TOWN OF CRANSTON.

Cranston street, opposite Arlington avenue.

TOWN OF JOHNSTON.

Brown street, near Plainfield street.
Dyer avenue, near Plainfield street.
Laurel Hill avenue, near Plainfield street.

The following is a list of drinking fountains, namely :

Benefit street, corner of College.
Broadway, junction of Westminster street.
Canal street, corner of Steeple.
Candace street, corner of Orms.
Cranston street, junction of Westminster.
Dorrance street, near Exchange place.
Dyer street, corner of Crawford.
Jackson street, corner of Westminster.
Lockwood street, corner of Plain.
North Main street, near Mill.
Prairie avenue, opposite Willard.
Point street, corner of Eddy.
Potters avenue, corner of Elmwood.
Richmond street, corner of Weybosset.
Stevens street, (Randall square).
Ship street, corner of Dyer.
Spruce street, corner of Tefft.
Westminster street, corner of Dyer.
Wickenden street, corner of Transit.

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The following table shows the lengths, sizes, etc., of services laid during twenty-one years, ending December 31, 1897:

YEARS.	Lengths of Services Laid in Feet.									Taps Used.						Stops Used.						Service Boxes Used.
	Sizes of Pipe.						Totals.	Trenching.	Paving.													
	½ inch.	⅝ inch.	¾ inch.	1 inch.	1¼ inch.	1½ inch.				⅜ in.	½ in.	⅝ in.	¾ in.	1 in.	To-tals.	⅜ in.	½ in.	⅝ in.	¾ in.	1 in.	To-tals.	
1877....	2,776.8	8,679.3	1,884.4	248.8	114.2	7.	13,710.5	14,422.44	2,105.67	173	571	114	15	6	879	173	571	114	15	6	879	896
1878....	2,209.8	6,881.8	1,436.6	119.4	120.7	35.3	10,803.6	11,365.38	1,659.34	133	427	91	7	13	671	148	464	91	7	12	722	725
1879....	1,624.9	6,107.5	874.4	275.7	66.2	7.	8,955.7	9,421.40	1,375.52	101	335	57	17	9	519	109	380	60	17	9	575	572
1880....	2,163.6	5,951.2	1,150.	483.6	186.1	16.9	9,951.4	10,468.87	1,528.45	136	334	66	25	17	578	141	358	67	26	17	609	603
1881....	1,078.9	6,269.4	741.1	253.1	233.4	8.4	8,584.3	9,067.2	1,330.6	68	392	55	21	18	554	71	411	47	17	18	564	559
1882....	.....	8,073.8	581.3	226.4	92.	32.	9,005.5	9,481.5	1,020.	....	511	49	17	15	592	....	525	41	15	14	595	610
1883....	9.	8,075.83	761.09	143.	131.9	60.	9,180.82	9,649.5	1,284.5	1	508	61	12	14	596	2	537	44	10	13	606	629
1884....	.....	8,048.72	732.2	266.3	119.6	23.2	9,190.02	9,715.5	1,051.6	....	512	64	18	17	611	....	539	51	15	13	618	641
1885....	33.9	7,971.78	667.1	106.4	34.	28.4	8,841.58	9,283.	1,109.5	....	490	48	11	7	556	1	519	32	5	6	563	586
1886....	23.	7,964.6	699.5	115.4	98.6	25.4	8,726.5	9,213.5	965.5	..	481	61	13	12	570	....	518	49	7	11	585	609
1887....	.....	8,381.8	456.6	81.4	75.8	20.2	9,015.8	9,422.	1,164.1	....	516	47	11	11	585	....	543	32	7	10	592	612
1888....	.....	7,496.6	553.6	66.8	105.2	55.8	8,278.	8,768.	1,072.5	....	495	52	9	10	566	....	519	39	5	10	573	587
1889....	.....	9,211.9	514.2	199.	90.2	8.2	10,023.5	10,563.	1,125.5	....	546	53	18	10	627	....	579	37	12	6	634	664
1890....	.....	8,997.8	671.3	194.7	241.6	61.2	10,166.6	10,792.5	1,183.	....	549	58	17	16	640	...	586	42	11	15	654	680
1891....	.....	12,531.28	965.5	237.2	311.9	53.5	14,099.38	14,816.	1,445.	....	729	88	30	24	871	....	797	66	18	22	903	944
1892....	... .	14,672.27	1,284.6	152.9	248.8	... .	16,358.57	17,177.	1,945.5	....	853	103	22	17	995	....	943	75	9	17	1,044	1,093
1893....	.....	11,153.2	936.5	245.7	248.6	.....	12,584.	13,214.5	1,590.	....	672	81	24	17	794	....	727	65	14	16	822	851
1894....	.....	11,285.2	756.5	391.4	129.2	15.2	13,577.5	14,129.5	1,643.	....	724	50	33	12	828	....	763	47	23	11	844	867
1895....	.....	10,258.5	954.2	142.	189.	.....	11,543.7	12,355.5	1,605.	....	635	68	9	21	733	...	668	56	6	12	742	767
1896....	.....	9,961.3	1,055.7	139.9	159.8	....	11,316.7	11,981.5	1,364.	....	579	83	14	12	688	....	617	70	12	9	708	726
1897....	.... ..	9,417.3	786.8	201.8	80.8	.... ..	10,486.7	11,007.	1,347.5	....	562	53	19	7	641	....	596	45	16	4	661	687
Totals..	9,919.9	188,191.06	18,463.19	4,290.9	3,077.6	457.7	224,400.37	236,314.79	28,918.78	612	11,421	1,414	362	285	14,094	645	12,160	1,170	267	251	14,493	14,908

The following table shows the lengths, size, etc., of services laid during the year ending December 31, 1897:

Months.	Lengths of Services Laid in Feet.								Taps Used.					Stops Used.					Service boxes used.
	Sizes of Pipe.					Totals.	Trenching.	Paving.											
	⅝ inch.	¾ inch.	1 inch.	1¼ inch.	1½ inch.				½ in.	⅝ in.	¾ in.	1 in.	Totals.	½ in.	⅝ in.	¾ in.	1 in.	Totals.	
January	254.6	8.2	.....	.....	.....	262.8	274.	9	12	1	..	....	13	13	1	....	....	14	14
February	59.2	.....	.....	.....	.....	59.2	63.	6	6	....	....	....	6	6	....	....	....	6	6
March	496.1	96.6	8.2	.....	.....	600.9	736.5	106	39	5	1	...	45	40	5	1	....	46	46
April	1,581.5	75.6	33.4	8.2	.....	1,698.7	1,750.5	256	95	4	2	1	102	96	4	2	1	103	103
May	989.8	141.6	42.6	.....	.....	1,174.	1,218	148.5	61	9	3	....	73	65	9	3	....	77	78
June	873.2	71.0	8.2	20.2	.....	972.6	1,001.	120.	54	7	1	2	64	57	5	1	1	64	68
July	766.3	127.2	21.2	.....	.....	914.7	964.5	103.5	45	8	2	....	55	52	6	1	....	59	62
August	868.8	98.8	43.4	.....	.....	1,011.	1,048.	101.	48	5	2	1	56	54	4	2	....	60	62
September	892.8	8.2	8.2	.....	.....	909.2	955.	141.	51	2	1	1	55	55	1	2	....	58	59
October	909.6	78.8	8.2	52.4	.....	1,049.	1,074.5	189.5	48	7	1	2	58	49	6	1	2	58	59
November	900.8	48.6	20.2	.....	.....	969.6	1,014.	90.	52	3	2	....	57	54	3	2	....	59	59
December	824.6	32.2	8.2	.....	.....	865.	908.	77.	51	2	4	....	57	55	1	1	....	57	61
Totals	9,417.3	786.8	201.8	80.8		10,486.7	11,007.	1,347.5	562	53	19	7	641	596	45	16	4	661	687

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Changes in size and location of services in 1897:

Taps and Stops.										Sizes and Lengths of Lead Pipe.										Trenching.	Paving.	Change in size only.	Change in location only.	Changes in both size and location.	Change in length.
Taken Out.					Inserted.					Taken Out.					Inserted.										
3/8 inch.	1/2 inch.	5/8 inch.	3/4 inch.	1 inch.	3/8 inch.	1/2 inch.	5/8 inch.	3/4 inch.	1 inch.	1/2 inch.	5/8 inch.	3/4 inch.	1 inch.	1 1/4 inch.	5/8 inch.	3/4 inch.	1 inch.	1 1/4 inch.	1 1/2 inch.						
75	93	27	6	8	.....	25	11	8	2	1,245.1	1,494.2	378.7	188.5	160	531.8	102.4	161.2	18.2	.....	3,923.6	1,197.5	27	11	6	14

164 services have been removed.

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The following table exhibits the number of service stops opened each month from the commencement to December 31, 1897 :

Months.	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897
January	....	54	33	21	34	55	15	49	9	20	7	17	15	21	17	18	26	7	39	36	39	56	40	29	30	27	30
February	....	47	18	18	7	25	23	18	9	19	3	11	9	10	7	15	7	10	21	25	26	23	24	28	8	28	24
March	....	38	34	63	7	45	32	60	19	46	23	39	11	28	9	21	16	14	19	28	24	28	36	40	27	20	42
April	....	109	109	108	32	108	82	78	52	58	55	49	55	62	48	68	60	38	61	53	73	76	71	76	67	100	70
May	....	224	206	147	162	168	136	95	80	84	66	72	78	62	62	61	70	52	74	66	114	83	91	81	79	98	82
June	....	329	295	151	172	148	114	103	71	109	82	48	64	81	81	59	50	86	59	80	83	103	106	105	100	76	86
July	....	333	261	127	141	158	83	80	49	75	56	77	66	76	77	83	62	89	74	67	85	105	93	80	89	83	59
August	....	224	209	123	83	94	91	51	51	39	58	87	69	61	57	71	49	52	56	76	95	104	115	116	83	64	69
September	....	184	147	139	101	94	80	63	44	37	60	67	93	50	70	59	74	63	64	77	93	114	88	112	70	71	67
October	....	138	135	160	92	84	81	78	79	48	61	56	47	65	62	52	80	70	64	54	104	102	96	85	90	70	62
November	....	100	104	185	86	51	73	57	63	54	37	64	49	51	39	57	69	47	58	72	81	118	80	70	68	52	54
December	56	83	45	122	60	35	55	45	47	29	40	27	56	44	46	28	49	42	53	50	83	102	62	62	57	58	53
Totals	56	1,863	1,596	1,364	977	1,068	865	777	573	618	548	614	612	611	575	595	612	570	642	684	900	1,014	902	884	768	747	698

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The receipts for water each year since the commencement have been as follows:

Year.	Amount.	Year.	Amount.
1872	$41,003 51	1885	$313,561 21
1873	97,886 09	1886	323,084 67
1874	132,052 39	1887	339,513 60
1875	165,144 71	1888	346,731 58
1876	183,868 73	1889	377,497 97
1877	200,039 39	1890	401,140 86
1878	218,883 33	1891	404,553 84
1879	229,551 78	1892	409,421 21
1880	247,705 06	1893	427,546 51
1881	260,530 87	1894	432,383 97
1882	269,318 77	1895	471,069 97
1883	283,632 89	1896	485,187 33
1884	302,368 36	1897	490,652 47

The amount of bills approved on account of water works from October 1 to December 31, 1897, inclusive, was:

For construction and extension, . . . $12,041 59

Classified as follows:

Laying water pipes	$4,900 97
Special water service for fire protection	3,145 44
Laying service pipes	863 85
Tools	642 71
Stop valves	479 40
Special castings	454 74
Cast iron water pipe	424 41
Labor on and carting pipe	289 55
Barn expenses	274 98
Wharf salaries	199 29
Holly high-duty engine at Hope station	100 00
Fire hydrants, boxes and covers	96 00
Taps and stops	79 96
Repairs on pipe yard buildings	41 32
Horses, wagons, harnesses, etc	34 37
Sundries	14 60
	$12,041 59

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For maintenance, ... $26,701 96

Classified as follows:

PETTACONSET PUMPING STATION.

Sundries	$1,667 44	
Coal and wood	1,472 47	
Engineers	536 87	
Firemen	434 70	
Superintendence	305 57	
Labor on fuel	55 45	
Barn expenses	52 33	
Care of grounds	43 80	
Oil, waste and packing	39 24	
Worthington high-duty pumping engine	26 81	
Cornish engine house	12 50	
Lights	11 63	
Real estate	7 00	
Corliss pumping engine and house	2 50	
		$4,668 21

SOCKANOSSET RESERVOIR.

Watchman	$186 00	
Sundries	30 00	
		216 00

HOPE PUMPING STATION.

Firemen	$427 80	
Engineers	305 57	
Sundries	127 97	
Lights	70 98	
Care of grounds	50 75	
Oil, waste and packing	16 27	
		999 34

HOPE RESERVOIR.

Watchman		209 25

FRUIT HILL RESERVOIR.

Sundries	$332 64	
Watchman	209 25	
		541 89

PIPE LINE AND SERVICE STOPS.

Repairs	$3,364 17	
Superintendence — salaries	854 21	
		4,218 38
Amount carried forward		$10,853 07

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Amount brought forward		$10,853 07

METER DEPARTMENT.

Water meters	$5,328 83	
Setting and repairing meters	1,376 03	
		6,704 86

MISCELLANEOUS.

Town of Cranston tax	$6,178 43	
Clerks' and inspectors' salaries	1,400 95	
Town of North Providence tax	400 00	
Barn expenses	330 18	
Prevention of defilement of the Pawtuxet	300 00	
Horses, wagons, harnesses, etc	185 05	
Sundries	95 92	
Analyses of water	90 00	
Real estate at Pawtuxet	65 00	
Pipe yard, office expenses	41 15	
Public drinking fountains and troughs	29 85	
Town of Lincoln tax	27 50	
		9,144 03
		$26,701 96

The amount of expenditures from October 1 to December 31, 1897, inclusive, was $38,743 55

The total expenditures to December 31, 1897, inclusive, were $8,628,518 91

The *net* expenditure for construction and extension from October 1 to December 31, 1897, inclusive, was	$8,517 97
The *net* expenditure for construction and extension to December 31, 1897, inclusive, was	$6,371,132 12
The *net* expenditure for maintenance from October 1 to December 31, 1897, inclusive, was	$18,716 22
The *net* expenditure for maintenance to December 31, 1897, inclusive, was	$1,417,198 62

The value of the water works system, as estimated by the city engineer, is as follows:

Amount estimated September 30, 1897	$4,007,665 16	
Net expenditures from October 1 to December 31, 1897	8,517 97	
		$4,016,183 31

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Bills deposited with the city treasurer for collection from October 1 to December 31, 1897, inclusive, amounted to . . $62,170 46

As follows:

Water	$49,583 69
Water meters	5,663 25
Setting and repairing meters	2,178 32
Rent of real estate	93 00
Examination and repairs on pipe line	85 90
Permanently closing service stops	40 00
Penalties	20 00
Laying water pipes for Butler Hospital	2,708 60
Labor and material, laying service pipes, etc	1,025 06
Laying water pipe for N. Y., N. H. & H. R. R. Co.	766 64
Old lead	6 00
	$62,170 46

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $63,983 55

As follows:

Water	$52,456 19
Water meters	5,688 75
Setting and repairing meters	1,969 52
Rent of real estate	168 00
Examinations and repairs on pipe line	109 47
Permanently closing service stops	50 00
Penalties	18 00
Labor and material, laying service pipes, etc	3,523 62
	$63,983 55

SEWERS.

During the quarter ending December 31, 1897, four hundred and thirty-eight permits were issued to drain layers—two hundred and seventy for new work, and one hundred and sixty-eight for extension and repairs of drains.

One drain layer's license was issued during the quarter, making the total number fifty-three, all of which expired December 31, 1897.

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December 8th, the proposal of the Portland Stone Ware Company of Portland, Maine, to furnish and deliver vitrified sewer pipes, branches, etc., was accepted and a contract subsequently executed. Amount, $7,231.71.

December 8th, the proposal of Merrick L. Goff to furnish and deliver catch-basin flagstones, was accepted and a contract subsequently executed. Amount, $864.00.

December 8th, the proposal of Long Island Brick Company to furnish and deliver one million sewer bricks, was accepted and a contract subsequently executed. Amount, $6,500.00.

December 14th, the proposal of Smithfield Granite Company to furnish and deliver two hundred and ten pieces inlet curbstones for catch-basins, was accepted. Amount, $1,039.50.

December 8th, the proposal of Manchester & Hudson to furnish the cement required for the department of public works during the year 1898, delivered on the work, was accepted and a contract subsequently executed.

SEWERS BUILT IN MILES, TO DECEMBER 31, 1897.

ITEMS.	KINDS.	Built Previous to 1897.	Built During 1897.	Total to Dec. 31, 1897.
Under regular appropriation.....	Brick.	31.667	1.116	32.783
Under regular appropriation.....	Pipe.	102.766	7.128	109.894
Under improved sewerag appropriaton	Brick and pipe.	21.939	.673	22.612
Total miles of sewers..		156.372	8.917	165.289

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October 2d, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials, or rock excavation.]

To Frederick E. Shaw.

No. of resolution.	Date of approval.		
386.	Oct. 1, 1897,	*Chalkstone avenue, from North Davis street to Douglas avenue,*	$965.70
387.	" " "	*Chalkstone avenue, from near Claremont street to Winthrop,*	826.20
388.	" " "	*Peace street, from west of Broad to Elmwood avenue,* .	707.20

To William H. Sherman.

385.	Oct. 1, 1897,	*Blackstone boulevard, east side, from President avenue about* 150 *feet northerly,* . .	$161.45
389.	" " "	*Waterman street, from near Wayland avenue to Butler,* .	907.17

October 26th, a contract for the construction of the following sewer was awarded and subsequently executed, namely:

To Frederick E. Shaw.

No. of resolution.	Date of approval.		
572.	Dec. 20, 1895,	*Section* 20, *Moshassuck river Division, Improved Sewerage System,*	$16,778.90

October 28th, a contract for the construction of the following sewer was awarded and subsequently executed, namely:

To William H. Sherman.

No. of resolution.	Date of approval.		
417.	Oct. 26, 1897,	*South Angell street and Butler avenue,*	$1,180.78

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During the quarter the construction of the following sewers was completed, namely:

No. of resolution.	Date of approval.				Date of completion.
126.	April	12,	1897,	*Atwells avenue, from the Woonasquatucket river to Valley street,*	Dec. 10, 1897.
127.	"	"	"	*Bacon, North Main Randall, and Printery streets,*	Dec. 11, 1897.
128.	"	"	"	*Chaffee street, from Appleton to Manton avenue,*	Dec. 31, 1897.
196.	May	7,	"	*Manton avenue and King street,* . .	Oct. 2, 1897.
197.	"	"	"	*Prospect street, from Barnes to Halsey,* . . .	Oct. 4, 1897.
284.	July	2,	"	*Halsey street, from near Prospect to Brown,* . . .	Oct. 18, 1897.
287.	"	"	"	*Smith street, from Elmhurst to McCaughin,* . . .	Oct. 5, 1897.
288.	"	"	"	*Wayne, Danforth, and Mathew streets,* . . .	Nov. 26, 1897.
385.	Oct.	1,	"	*Blackstone boulevard, east side, from President avenue northerly about* 150 *feet,* .	Oct. 11, 1897.
386.	"	"	"	*Chalkstone avenue, from North Davis street to Douglas avenue,*	Oct. 28, 1897.

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No. of resolution.	Date of approval.				Date of completion.
387.	Oct.	1,	1897,	*Chalkstone avenue, from near Claremont street to Winthrop,*	Oct. 29, 1897.
388.	"	"	"	*Peace street, from near Broad to Elmwood avenue,*	Nov. 15, 1897.
389.	"	"	"	*Waterman street, from near Wayland avenue to Butler,*	Oct. 27, 1897.
417.	"	26,	"	*South Angell street and Butler avenue,*	Nov. 18, 1897.

At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

No. of resolution.	Date of approval.			
572.	Dec.	20,	1895,	*Moshassuck River and West River Divisions, Improved Sewerage System, Section* 20.

Work upon the following sewers, completing the work ordered by the city council, had not commenced December 31, 1897, namely:

No. of resolution.	Date of approval.			
394.	Oct.	5,	1897,	*Broad and Rugby streets.*
416.	"	26,	"	*Columbian avenue and Roger Williams Park.*

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SEWER MAINTENANCE DEPARTMENT.

The following table shows the work performed by the department cleaning sewers, basins, and drains, for the year 1897 :

Months.	Old Work.								New Work.									Total deposit removed, cubic yards.
	Old Drains.			Sand Catchers.		Open Ditches.			Sumps.		Sewers.				Catch-Basins.			
	Number.	Length in feet.	Deposit removed, cu. yds.	Number.	Deposit removed, cu. yds.	Number.	Length in feet.	Deposit removed, cu. yds.	Number.	Deposit removed, cu. yds.	Number.	Length in feet.	Deposit removed, cu. yds.	Dead ends.	No. times examined.	Number cleaned.	Deposit removed, cu. yds.	
January	....	.....	.....	....	.....	....	.....	.....	..	.....	3	2,850	395.40	.....	1	303	309.95	705.35
February	...	.....	.....	....	.....	....	.....	.....	....	.....	1	1,400	174.	.....	1	158	190.81	364.81
March	....	.....	.....	...	.....	2	150	31.95	....	.....	23	14,150	406.23	.....	2	506	511.78	949.96
April	....	.....	.....	....	.....	....	.....	.....	....	.....	10	5,800	5.63	.....	1	632	653.19	658.82
May	....	.....	.....	....	.....	....	.....	.....	....	.....	29	22,475	28.45	55	2	610	609.89	638.34
June	....	.....	.....	16	55.	...	.....	.....	....	.....	15	6,950	5.37	.....	1	760	1,029.	1,089.37
July	....	.....	.....	....	.....	....	.....	.....	2	10.	48	29,400	20.74	.....	2	1,022	887.70	918.44
August	....	.....	.....	....	.....	2	300	35.48	5	29.63	9	4,950	41.48	40	2	1,218	1,390.89	1,497.48
September	....	.....	.....	....	.....	....	.....	.....	6	57.48	21	3,650	7.40	.....	1	2,069	1,699.85	1,764.73
October	....	.....	.....	16	51.40	....	.....	.....	7	41.44	106	56,850	90.52	.....	1	1,713	1,042.	1,225.36
November	....	.....	.....	....	.....	....	.....	.....	4	26.	34	17,550	31.85	40	1	647	355.78	413.63
December	1	175	13.89	....	.....	....	.....	.....	3	58.89	78	55,575	47.30	.....	2	377	309.03	424.11
Totals	1	175	13.89	32	106.40	4	450	67.43	27	218.44	377	221,600	1,254.37	135	17	10,015	8,989.87	10,650.40

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The amount of bills approved on account of sewers from October 1 to December 31, 1897, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation	$21,430 93	
Improved sewerage appropriation	13,331 57	
		$34,762 50

Charged as follows:

Salaries of assistant engineers	$3,466 52
Material	2,455 06
Contract reservations	931 00
Sundries	338 58
Sundries, improved sewerage system	317 48
Testing cement	220 38
Additional catch-basins	60 28
Sewer in Atwells avenue, from Woonasquatucket river to Valley street	580 56
Sewer in Bacon, North Main, Randall and Printery streets	6,288 64
Sewer in Blackstone boulevard, east side, from President avenue northerly about 150 feet	209 30
Sewer in Chaffee street, from Appleton to Manton avenue	880 31
Sewer in Chalkstone avenue from near Claremont street to Winthrop	1,110 99
Sewer in Chalkstone avenue, from North Davis street to Douglas avenue	1,356 33
Sewer in Doyle avenue, from near East to Elmgrove	153 50
Sewer in Halsey street, from near Prospect to Brown	793 16
Sewer in Peace street, from summit west of Broad to Elmwood avenue	1,074 99
Sewer in Prospect street, from Barnes to Halsey	362 85
Sewer in Smith street, from Elmhurst to McCaughin	1,230 14
Sewer in South Angell street and Butler avenue	1,407 34
Sewer in Waterman street, from near Wayland avenue to Butler	1,176 52
Sewer in Wayne, Danforth, and Mathew streets	1,485 61
Connecting lateral sewers with improved sewerage system	1,166 93
Grading grounds at Ernest street station	1,048 72
Granite steps for Ernest street station	1,265 00
Supplies for sewage pumping station	34 95
Sewer in Manton avenue and King street	137 04
Sewer in Moshassuck Division, Section 20	5,210 32
	$34,762 50

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For maintenance, ... $13,981 45

Charged as follows:

Repairing basins and sewers	$4,216 59
Cleaning basins and sewers	3,916 41
Inspection of connections	507 07
Barn expenses	439 61
Cleaning and repairing old drains	433 47
Salary—superintendent	398 57
Tools	252 97
Horses, wagons, harnesses, etc	204 94
Sundries	123 17
Office expenses	49 34
Cleaning private connections	27 00
Filling cisterns, etc	25 50

ERNEST STREET STATION.

Coal and wood	744 60
Engineers	693 49
Cleaning screens	529 07
Firemen	425 87
Supplies	422 98
Cleaning and repairing pumps	297 79
Lights	96 33
Repairs on engines	81 41
Care of grounds	43 60
Repairs on buildings	36 97
Care of buildings	14 70
	$13,981 45

The *net* expenditure for construction of sewers to December 31, 1897, inclusive, was $6,049,957 90

The *net* expenditure for maintenance of sewers to December 31, 1897, inclusive, was $548,402 69

Bills deposited with the city treasurer for collection from October 1 to December 31, 1897, inclusive, amounted to $991 94

As follows:

Repairing drains	$337 91
Cleaning private connections	71 00
Setting track grates for Union Railroad Company	68 81
Filling cisterns, etc	23 50
Sewer material	490 72
	$991 94

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During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for amounting to $647 52

As follows :

Cleaning private connections	$62 75
Repairing drains	49 85
Filling cisterns, etc	28 00
Sewer material	506 92
	$647 52

HIGHWAYS.

October 30th, the proposal of Murray Brothers to grade Columbian avenue, from Broad street to Roger Williams Park, for the sum of seventeen cents per cubic yard, measured in the cut, was accepted.

December 14th, the proposal of Chapman Granite Works to furnish and deliver two thousand square yards granite paving blocks, was accepted. Amount, $2,050.00.

December 14th, the proposal of Joseph Newall & Company to furnish and deliver one thousand square yards granite paving blocks, was accepted. Amount, $1,040.00.

December 14th, the proposal of Beaton Brothers to furnish and deliver one thousand square yards granite paving blocks, and one thousand linear feet crosswalk stone, was accepted. Amount, $1,340.00.

December 14th, the proposal of Smithfield Granite Company to furnish and deliver the following material, was accepted, namely :

2,000 square yards granite paving blocks ;
200 pieces circular curbing, 10 ft. radius ;
60 pieces curb corners, 2 ft. radius ;
1,000 linear feet crosswalk stone.

Amount, $3,107.00.

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December 31, 1897, the total length of received streets was 209.50 miles.

141.54 miles of streets were curbed and built with gravel or broken stone.

35.99 miles of streets were paved as follows:

Granite blocks	26.99 miles.
Cobble stones	4.77 miles.
Brick	.46 miles.
Trinidad asphalt	3.25 miles.
Vulcanite	.52 miles.

In addition to the general patching necessary to maintain the streets in good repair, the following work has been done during the year ending December 31, 1897, namely:

New streets built	12,957 lineal feet.
Curbing set	25,913 lineal feet.
Streets rebuilt	6,875 lineal feet.
Streets resurfaced	181,850 lineal feet.
Streets graded	8,850 lineal feet.
Block pavement laid	17,735 square yards.
Asphalt pavement	6,940 square yards.
Cobble pavement laid	2,950 square yards.
Block paving relaid	24,787 square yards.
Brick paving relaid	836 square yards.
Concrete gutters and roadways built	8,652 square yards.
Asphalt gutters and roadways built	2,553 square yards.
Concrete sidewalks laid	4,637 square yards.
Concrete sidewalks patched and top dressed	5,111 square yards.
Crushed stone used	57,439 tons.
Screened gravel used	7,341 cubic yards.

1,009 notices to build or repair sidewalks were served upon the abutting owners during the year 1897:

The work was done, as follows:

By the abutting owners	707
By the city, at the expense of the abutting owners	62
Time for doing the work extended	24
Work not done	216

During the year the following streets, aggregating 34.441 miles, have been resurfaced, namely:

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Academy avenue, from Chalkstone to Atwells.
Almy street, from Westminster to Broadway.
Andrews street, from Broadway to Grove street.
Angell street, from Cooke to Butler avenue.
Angell street, from Benefit to Prospect.
Arlington avenue, from Lloyd street to Irving avenue.
Atwells avenue, from Manton to Academy.
Bacon street, from North Main to Camp.
Barnes street, from Hope to Prospect.
Barton street, from Westminster to Broadway.
Battey street, from Westminster to Broadway.
Beacon avenue, from Broad street to Friendship.
Benevolent street, from Brown to Benefit.
Blackstone boulevard, west side, from Irving avenue to East.
Borden street, from Eddy to Plain.
Bradford street, from Broadway to Atwells avenue.
Broad street, from Trinity square to city line.
Brook street, from Power to George.
Brown street, from Angell to Olney.
Butler avenue, from Irving to Pitman street.
Calder street, from Potters avenue to Carter street.
Carter street, from Elmwood avenue to Huntington.
Cemetery street, from North Grove to North Main.
Charles Field street, from Brown to Benefit.
Chalkstone avenue, from North Davis street to Douglas avenue.
Chalkstone avenue, from Smith street to Lisbon.
Chalkstone avenue, from River to Academy.
College street, from Market square to Benefit street.
Congress avenue, from Melrose street to Broad.
Congdon street, from Angell to Jenckes.
Cope street, from Fountain to Broadway.
Creighton street, from Brown to Prospect.
D street, from Booth to Lester.
Dean street, from Westminster to Atwells avenue.
Delaine street, from Valley to Manton avenue.
Douglas avenue, from Chalkstone to Vale street.
Douglas avenue, from Branch to Geneva bridge.
Dover street, from Pemberton to Carleton.
Doyle avenue, from East to Morris.
East avenue, from Rochambeau to city line.
East River street, from Angell to Waterman.
Eaton street, from Smith to River avenue.
Eddy street, from railroad bridge to New York avenue.
Elmwood avenue, from railroad bridge to Park avenue.
Esten street, from Smith to Orms.
Federal street, from Broadway to Dean street.
Fenner street, from Broad to Westminster.
Fillmore street, from Oregon to Douglas avenue.
Franklin street, from Westminster to Fountain.
Franklin avenue, from Vale street to Chalkstone avenue.
Fountain street, from Dean to Knight.

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Fruit Hill avenue, from Manton to Woonasquatucket.
Gallup street, from Prairie avenue to Rugby street.
George street, from Brown to Benefit.
Gesler street, from Courtland to Ridge.
Gilmore street, from Cranston to south of Lester.
Greene street, from Westminster to Fountain.
Grove street, from Knight to Tobey.
Halsey street, from Benefit to Brown.
Hamilton street, from Potters avenue to Adelaide.
Harold street, from Allston to Valley.
Harrison street, from Cranston to Sprague.
Henderson street, from Eddy to city dock.
Hope street, from Williams to Barnes.
Hospital street, from Eddy to Lockwood.
Knight street, from Westminster to Gesler.
Lester street, from Pearl to Harrison.
Lincoln street, from Park to Francis.
Link street, from Wickenden to South Main.
Lockwood street, from Hospital to Broad.
Madison street, from Potters avenue to Huntington.
Manton avenue, from Florence street to Fruit Hill avenue.
Meeting street, from North Main to Benefit.
Meeting street, from Congdon to Brown.
Morris avenue, from Olney street to Cypress.
North Grove street, from Cemetery to Smithfield avenue.
Ocean street, from Public to Thurbers avenue.
Oxford street, from Gordon avenue to Broad street.
Paine street, from Cranston to Messer.
Park street, from Promenade to Smith.
Peace street, from Broad to Elmwood avenue.
Pekin street, from Chalkstone avenue to Vale street.
Pitman street, from Butler avenue to Wayland.
Pond street, from Fenner to Pearl.
Prairie avenue, from Thurbers to Broad street.
Pratt street, from Olney to Halsey.
Princeton avenue, from Updike street to Elmwood avenue.
Promenade street, from Gaspee to Senter.
Prospect street, from Angell to Olney.
Regent avenue, from Harold street to Academy avenue.
Reservoir avenue, from the bridge to Elmwood avenue.
Ridge street, from Tobey to Atwells avenue.
River avenue, from Regent to Valley street.
Roanoke street, from Pemberton to Carleton.
Ruggles street, from Chalkstone avenue to Smith street.
Ring street, from Tobey to Knight.
Sabin street, from Cope to Broadway.
Sayles street, from Ocean to Miner.
Smith street, from Chalkstone avenue to city line.
Smithfield avenue, from Branch to Northup.
South Angell street, from Butler avenue to Wayland.
South Court street, from Benefit to Congdon.

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Spring street, from Broad to Westminster.
Stewart court, from Westminster street to Lyman.
Summer street, from Broad to Westminster.
Thomas street, from North Main to Benefit.
Thurbers avenue, from Prairie to Hylestead street.
Tobey street, from Broadway to Ridge street.
Valley street, from Zone to Hemlock.
Valley street, from Broadway to Atwells avenue.
Vineyard street, from Carter to Hawthorne.
Vinton street, from Fountain to Atwells avenue.
Violet street, from Orms to Chalkstone avenue.
Washington street, from Walker to Knight.
Waterman street, from Butler avenue to Wayland.
Waterman street, from North Main to Prospect.
Wayland avenue, from Pitman street to Angell.
Winter street, from Broad to Westminster.
Winslow street, from Broad to Weybosset.
Woodward road, from Branch avenue to Veazie street.
Woonasquatucket avenue, from Fruit Hill to city line.

1.676 + miles of streets have been graded during the year, namely:

Alabama avenue, from Maryland to Montgomery.
Allens avenue, from Public street to Henderson.
Arlington avenue, from Irving to Olney street.
Blackstone street, from Eddy to Allens avenue.
Henderson street, from Allens avenue to city dock.
Huntington avenue, from Carter street to Calder.
Montgomery avenue, from Virginia to Maryland.
Park avenue, south of Roger Williams Park.
West Park street, from Holden to Calais.

2.618 + miles of streets have been repaved during the year, namely:

Delahunt street, from Branch avenue to Henrietta street.
Eddy street, from Washington to Fountain.
Eddy street, from Public to Thurbers avenue.
Fountain street, from West Exchange to Mathewson.
Randall street, from Printery to North Main.
South Main street, from Market square to Transit street.
South Water street, from Cent to India.
Westminster street, from Cranston to Barton.
West River street, from Charles to Wilcox.
Wickenden street, from Hope to East.

Received Streets Not Built January 1, 1898.

First Ward.

Pitman street, from Butler avenue to East River street.
Waterman street, from Bellevue to East River.

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East River street, from Pitman to South Angell.
Prospect alley, from Hope street to Brook.

Second Ward.

Lloyd street, from near Whittier avenue to Arlington.
Lloyd street, from Slater avenue to Blackstone boulevard.
President avenue, from Slater to Blackstone boulevard.
Slater avenue, from Irving to President.
Elmgrove avenue, from Irving to Cypress street.
Hidden street, from Prospect to Congdon.
Olney street, from Hope to Arlington avenue.
Pleasant street, from Ivy to East avenue.
Doyle avenue, from Morris to Elmgrove.
Cypress street, from Morris avenue to Cole.
Grand View street, from North Main to Knowles.
Cole avenue, from Cypress street to Rochambeau avenue.
East avenue, from Doyle to city line.
Angell street, from Grand avenue easterly.
Irving avenue, from Grotto easterly.
University avenue, from Slater to Blackstone boulevard.
Humboldt avenue, from Irving to Elton street.
Morris avenue, from Olney street to Cypress.
Rochambeau avenue, from Blackstone boulevard to city line.
Blackstone boulevard, from Rochambeau avenue to city line.
Seventh street, from North Main to Summit avenue.
Summit avenue, from Fourth street to Seventh.
Stampers street, from North Main to Hewes.
Back street, from near Mill to Stevens.
Burrs Lane, from North Main street easterly.
Cemetery street, from North Main street to the river.
Frost street, from North Main to Cemetery.
Matilda street, from North Main to Concord.
Concord street, from Matilda to Bentley lane.

Third Ward.

Black street, from Orms to Chalkstone avenue.
Admiral street, from Douglas avenue to city line.
Douglas avenue, from near the cemetery to Admiral street.
Douglas avenue, from Branch to city line.
Veazie street, from Douglas avenue to Douglas.
Hawkins street, from Douglas avenue to Branch.
Veazie street, from Branch avenue to Woodward road.
Woodward road, from Branch avenue to city line.
Luna street, from Branch avenue to Northup.
Northup avenue, from Luna street to Smithfield avenue.
North Grove street, from Smithfield avenue to Cemetery street.
Cemetery street, from the river to Smithfield avenue.
Smithfield avenue, from Branch to city line.
Hall street, from Northup avenue to Ledge street.
Opper street, from Branch avenue to Nahant street.

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Commodore street, from Silver Spring to Branch avenue.
O'Neil street, from Veazie to Douglas avenue.
Hazard street, from Douglas avenue southerly.
River avenue, from Admiral street to Douglas avenue.
Liberty street, from Smith to Jefferson.
Canal street, from Smith to Mill.
Charles street, from Mill to Randall square.
Charles street, from Hagan to city line.

Fourth Ward.

Mason street, from Aborn to West Exchange.
Callender street, from Sabin to Mason.
Beverly street, from Sabin to Mason.
Worcester street, from Eddy to Clemence.

Fifth Ward.

Allens avenue, from Blackstone street northerly.
Ship street, from Dyer to the river.
Elm street, from Providence river westerly.
Henderson street, from Allens avenue easterly.

Sixth Ward.

Reynolds avenue, from Prairie to Burnside street.
Public street, from Allens avenue to harbor line.
Briggs street, from Plain to Eddy.
Thurbers avenue, from Kay street to harbor line.
Kay street, from Thurbers avenue to the railroad.
Richardson street, from Prairie avenue to Eddy street.
Long Cove street, from Eddy easterly.
Jillson street, from Broad to Eddy.
Ernest street, from Eddy to Allens avenue.
Ocean street, from Thurbers avenue to Byfield street.
Rachel street, from Autumn to Thurbers avenue.
Rugby street, from Jillson to Broad.
Lavina street, from Logan avenue to Cole street.
Gordon avenue, from Gallup street to Colfax.
Early street, from Broad to Prairie avenue.
Allens avenue, from Public street to New York avenue.

Seventh Ward.

Bucklin street, from Burnett to Cromwell.
Columbia avenue, from Broad street to Roger Williams Park.
Irving street, from Broad to Emerson.
Lenox avenue, from Hamilton street to Emerson.
Lexington avenue, from Hamilton street to Broad.
Ontario street, from Hamilton to Broad.
Adelaide avenue, from Elmwood to Crescent street.
Reservoir avenue, from railroad bridge to city line.
Elmwood street, from Reservoir avenue to Holmes street.

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Melrose street, from Irving to Roger Williams avenue.
Hamilton street, from Adelaide avenue to Sackett street.
Pontiac street, from Reservoir avenue to city line.
Fenner avenue, from Cranston street to Reservoir avenue.
Jordan street, from Howe to Reservoir avenue.
Atlantic avenue, from Elmwood to Reservoir.
Huntington avenue, from Jackson to Carter street.
Pearce avenue, from Huntington to Anthony.
Waldo street, from Salem to Dexter.

Eighth Ward.

Wadsworth street, from Sorrento to Cranston.
Anthony avenue, from Cranston street westerly.
Avon street, from Anthony avenue northerly.
Rice street, from Pearl to A.
Perkins street, from Pearl to A.
Saunders street, from Lester to Perkins.
Oak street, from Troy to Huntington avenue.
Troy street, from Oak to Westminster.

Ninth Ward.

Dean street, from Cedar to West Exchange.
McAvoy street, from Spruce to West Exchange.
Lily street, from Spruce to Atwells avenue.
Tefft street, from West Exchange to Atwells avenue.
Eden street, from Bell to Grove.

Tenth Ward.

West Park street, from Holden to Senter.
West Park street, from Valley easterly.
Jewett street, from Valley to angle in street.
Okie street, east and west of Bath.
Calais street, from Jewett to Edith.
Senter street, from West Park to Promenade.
Bath street, from Orms to Senter.
Rathbone street, from Valley to Promenade.
Ayrault street, from Valley to Chalkstone avenue.
Promenade street, from near Holden to Hemlock.
Vale street, from Douglas avenue to Danforth street.
Danforth street, from Vale to Smith.
Eaton street, from Douglas avenue to Smith street.
Smith street, from Oakland avenue to city line.
Old road, from Smith street to Smith.
River avenue, from the brook to Eaton street.
Elmhurst street, from Smith to Eaton.
Academy avenue, from Chalkstone to Smith.
Chalkstone avenue, from Mount Pleasant to Manton.
Manton avenue, from Atwells to Fruit Hill.
Fruit Hill avenue, from Manton to city line.

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Woonasquatucket avenue, from Fruit Hill to city line.
King street, from Manton avenue to Sheridan street.
Andem street, from Canton to Bergen.
Pemberton street, from Beaufort to Dover.
Franklin avenue, from Vale street to Eaton.
Yale avenue, from Mt. Pleasant to Carleton street.

During the quarter the following work was completed:

To Grade and Put in Good Condition.

Date of order.	
Sept. 16, 1897,	*Montgomery avenue, from Virginia to Maryland, and Alabama avenue, from Maryland to Montgomery.*

To Take Possession.

Sept. 2, 1897,	*Canal street, from Smith to Mill.*

To Grade and Put in Good Condition.

No. of resolution.	Date of approval.	
315.	July 7, 1896,	*Allens avenue, from Public street to Henderson.*

The following work was in progress Dec. 31, 1897, namely:

Sidewalks to be Curbed and Gutters Paved.

Date of order.	
May 16, 1895,	*Francis street, from Cove and Exchange place to Gaspee street:* — three-fourths completed.
" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.
May 20, 1897,	*Francis street, from West Exchange to bridge over the Woonasquatucket river:* — one-half completed.
July 1, "	*Approaches to new passenger station:* — nearly completed.

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Date of order.	
Sept. 16, 1897,	*Miner street, from Potters avenue to Sayles street:* — gutters to be concreted.
Oct. 21, 1897,	*Irving avenue, from Taber to Blackstone boulevard:* — gutters to be concreted.

TO BE PAVED WITH GRANITE BLOCKS.

No. of resolution.	Date of approval.	
151.	April 5, 1895,	*Francis street, from Cove and Exchange place to Gaspee street:* — three-fourths completed.
151.	" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.

TO PAVE WITH TRINIDAD ASPHALT.

322.	July 13, 1897,	*Approaches to new passenger station:* — two-thirds completed.

The following work, ordered by the board of aldermen and city council, had not commenced Dec. 31, 1897, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
Sept. 16, 1897,	*Peace street, from Elmwood avenue to Bucklin street.*
Oct. 21, 1897,	*Roger street, from Power to Williams.*
" " "	*Power street, from Ives to Gano.*
Nov. 18, "	*Whitmarsh street, from Updike to Elmwood avenue.*
Dec. 16, "	*Arlington avenue, east side, from Irving to University.*
" " "	*Ayrault street, from Valley to Chalkstone avenue.*
" " "	*Black street, from Orms to Chalkstone avenue.*
" " "	*Foster street, from Broad to Pine.*

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Date of order.	
Dec. 16, 1897,	*Lexington avenue, from Hamilton street to Broad.*
" " "	*Wayne street, from Nolan to Candace.*
" " "	*West Park street, from Holden to Senter.*

To Put in Good Condition.

Sept. 16, 1897,	*Irving avenue, from Grotto to its easterly termination.*

Bills approved on account of highways from October 1 to December 31, 1897, inclusive, amounted to:

Regular appropriation	$77,748 41	
Special appropriation	321 34	
Special credit appropriation	6,413 11	
		$84,482 86

Classified as follows:

Crushed stone—material and labor	$29,458 93	
Repairs on unpaved streets	14,937 12	
Cleaning streets	14,187 65	
Repairs on paved streets	2,587 02	
Barn expenses	2,567 19	
Blacksmith and wheelwright shop	2,446 44	
Tools, implements, etc	1,029 00	
Stone—paving and crosswalk	996 88	
Labor on material	844 73	
Steam rollers—repairs and supplies	770 24	
Horses, wagons, harnesses, etc	622 42	
Salaries—superintendent and clerks	451 71	
Building driveways, etc	410 76	
Repairs on stone crushers	299 33	
Sundries	177 91	
Watchman at city yard	159 43	
Fencing streets—material and labor	56 54	
Office expenses—city yard	47 24	
Watering streets	35 00	
		$72,085 54
Amount carried forward		$72,085 54

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Amount brought forward		$72,085 54

New Work—Building and Rebuilding Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Andem street, from Academy avenue to Canton street	$10 00	
Brownell street, from Park to Francis	37 97	
Eddy street, west side, from Broad to Morton, and on the east side, from Broad to New York avenue	1 14	
Irving avenue, from Taber to Blackstone boulevard	6,420 33	
Lisbon street, from Chalkstone avenue to Regent	59 71	
Milk street, from Chester avenue to Public street	24 54	
Miner street, from Potters avenue to Sayles street	1,047 55	
Osborn street, from Vale to Chalkstone avenue	67 48	
		7,668 72

Pave with Granite Blocks and Cobble.

Eddy street, from Henderson to Public		12 90

Pave with Trinidad Asphalt.

The two approaches to the proposed depot in Exchange place		184 15

Grade and Put in Good Condition.

Allens avenue, from Public street to Henderson	$333 34	
Montgomery avenue, from Virginia to Maryland, and *Alabama avenue*, from Maryland to Montgomery	2,985 83	
		3,319 17

To Put in Good Condition.

Irving avenue, from Grotto to its easterly termination		330 85

Take Possession.

Canal street, from Smith to Mill		881 53
		$84,482 86

Bills deposited with the city treasurer for collection from October 1 to December 31, 1897, inclusive, amounted to $5,574 54

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As follows:

Labor and material	$3,707 98
New York, New Haven and Hartford Railroad Company, for granite curbing, etc.	1,041 20
Blacksmith and harness work done for other departments	368 36
Boarding horses for other departments	209 24
Street sweepings	147 00
Manure from barn	72 00
Removing trees	18 76
Stone drag	10 00
	$5,574 54

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $4,005 09

As follows:

Labor and material	$2,435 78
New York, New Haven and Hartford Railroad Company, for granite curbing, etc.	1,041 20
Boarding horses for other departments	209 24
Street sweepings	147 00
Manure from barn	72 00
Blacksmith and harness work for other departments	71 11
Removing trees	18 76
Stone drag	10 00
	$4,005 09

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from October 1 to December 31, 1897, inclusive, amounted to $3,469 92

Charged as follows:

Concreting sidewalks	$3,219 52
Granite curbing	250 40
	$3,469 92

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Curbing bills deposited with the city treasurer for collection, from October 1 to December 31, 1897, inclusive, amounted to $812 83

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, amounting to $860 35

As follows:

Granite curbing	$854 35
Concreting sidewalks	6 00
	$860 35

CITY ENGINEER.

Bills approved on account of the city engineer's department, from October 1 to December 31, 1897, inclusive, amounted to . . $11,128 67

Charged as follows:

Salary—city engineer	$1,125 00
Salaries of assistants	8,625 19
Salaries of clerks	780 53
Car fares	317 30
Supplies—drawing material, etc	239 07
Sundries	20 33
Instruments and repairs	18 75
Meteorological instruments and repairs	2 50
	$11,128 67

BRIDGES.

November 17th, the proposal of Narragansett Improvement Company to lay a Trinidad Lake asphalt pavement on Weybosset bridge, was accepted and a contract subsequently executed. Amount, $5,357.50.

During the quarter, the following work was completed, namely:

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No. of resolution.	Date of approval.	
48.	Jan. 19, 1894,	*New city yard, Henderson street* —to grade and fence.

The following work was in progress at the end of the quarter, namely:

No. of resolution.	Date of approval.	
158.	April 20, 1897,	*Weybosset bridge and river walls.*
446.	Nov. 19, 1897,	*Weybosset bridge extension.*

Bills approved on account of bridges from October 1 to December 31, 1897, inclusive, amounted to $4,204 93

Charged as follows:

Acorn street bridge	$12 49
Atwells avenue bridge	1 57
Barn expenses	110 00
Branch avenue bridge	13 45
Building at city yard	10 93
Burnside bridge	2 15
Eagle street bridge	1 88
Gaspee street bridge	33 70
Geneva bridge	1 88
Horses, wagons, harnesses, etc	22 63
Lumber, hardware, etc	22 14
Mill street bridge	3 15
Point street bridge	1,222 57
Randall street bridge	15 35
Red bridge	109 02
Rent of keeper's house, Washington bridge	30 00
Salaries—Point street bridge	999 75
Salaries—Red bridge	521 00
Salaries—Washington bridge	507 65
Sundries	138 83
Tools	119 73
Veazie street bridge	1 87
Wanskuck bridge	3 75
Washington bridge	277 02
Whelden street bridge	22 42
	$4,204 93

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Bills deposited with the city treasurer for collection from October 1 to December 31, 1897, inclusive (for labor performed for the Union Railroad Company), amounted to . . . $706 75

During the quarter coupons from bills collected have been returned by the city treasurer and receipted for, (for labor performed for the Union Railroad Company), to the amount of . $706 75

Bills approved for account of rebuilding the Weybosset bridge and river walls, from October 1 to December 31, 1897, inclusive, have been paid from the special appropriation for that work, to the amount of $41,801 38

PUBLIC WORKS OFFICE.

Bills approved for account of the public works office, from October 1 to December 31, 1897, inclusive, amounted to $5,091 59

Charged as follows:

Salaries of commissioner and secretary	$1,925 00
Salaries of office assistants	3,065 79
Office supplies	100 80
	$5,091 59

CONTINGENCIES.

Bills approved for account of grading and fencing the new city yard, from October 1 to December 31, 1897, inclusive, have been paid from the appropriation for contingencies to the amount of $840 87

ROBERT E. SMITH,

Commissioner.

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ANNUAL REPORT

OF THE

COMMISSIONERS

OF THE

NORTH BURIAL GROUND,

FOR THE YEAR 1897.

[Presented January 17, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street,
1898.

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ENTRANCE TO NORTH BURIAL GROUND.

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REPORT.

To the Honorable the City Council of the City of Providence:

The Commissioners of the North Burial Ground respectfully beg leave to present this their annual report for the year ending December 31st, 1897:

Great changes have been made in the appearance of portions of this Cemetery during the year, and the wisdom of selecting a new Superintendent in April last has been demonstrated as well in the increased revenue as in the general improvement that has resulted, not only in the grounds but in the system of conducting the business of this department of the City.

Under the old regime the gates of the Cemetery were kept closed except at the office entrance. Now all the gates are kept open during the day, and the grounds are open to public inspection. Another change inaugurated was in the care of the Free or Pauper Burial Ground, which had been neglected and presented a sad appearance. During the past season all fallen stones have been reset and correctly lined up, all sunken graves have been filled in and the grass properly cared for. Although much labor was required to accomplish this result, the improvement in this section is very noticeable, sufficiently so to fully compensate for the cost. On account of lack of space in the North section of these grounds, it seemed necessary to extend the boundaries thereof, thus making the Eastern boundaries of the North and South sections conform to the same line. In front of that portion of the ground owned by the Society of Friends there was a very unsightly tract, the condition of which not only detracted very much from the appearance of the Friends' Plot, but also from that of a large surrounding sec-

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tion. This space has been filled, graded and seeded, requiring some fifteen hundred and seventy-three cubic yards of filling,—thus making an addition of nearly an acre of land available for burial lots, and also providing an avenue leading directly to the Friends' ground. Near the Easterly boundary of the Cemetery there was another unsightly tract, and plans have been prepared for laying out this section according to the Park Plat System now adopted in large cemeteries. In connection with this plat a fine new entrance is in course of construction that will be an ornament to the Cemetery and also a great convenience to parties using the Pawtucket line of street cars. In laying out these sections the lack of a nursery has been apparent, and to meet the demands of future improvements of this nature a tract of land has been set aside by the Superintendent for the culture of young trees and shrubs. The new Superintendent found many sunken graves on the grounds, and much labor was required to restore them to a presentable condition. But this work was continued so long as the weather was favorable. In different parts of the grounds were many headstones that were broken or had fallen down, and in many cases this fact was unknown to the lot owner. To enlighten these people the Superintendent sent out a circular to all who could be reached, and this notice was very generally responded to. Another circular was sent to the owners of lots that were not under either annual or perpetual care, and the result has been that many new Trusts have been added to the "Perpetual Care Fund," and also many lots added to the "Annual Care List." Besides the work mentioned general improvements have been carried on throughout the grounds, many dead trees have been removed, several plats have been re-graded, and many flower beds and rockeries added. In the old grounds are many lots enclosed by posts and chains, or posts and railings, some have the old-fashioned hedges and many have been curbed. It has been the Commissioner's aim to do away with as many of these as possible, and there have been removed this season, with the con-

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sent of the owners, the following: Six lots of curbing, six lots or parts of rails or chains, two lots of hedge. There were some fifty lots under Perpetual or Annual Care upon which the turf was in very poor condition, requiring from one-half to,—in many cases,—the whole lot to be stripped and re-turfed. This of course required a considerable expense, but was considered as due to the lot owners and ourselves also. This has called forth from the persons interested many expressions of appreciation.

In addition to the continued improvement of the Cemetery proper the Commissioners have sought to bring the North Burial Ground to the favorable attention of the public in other directions. With this object in view the Commissioners have caused the entire Cemetery to be re-platted by the City Engineer's Department, and at an early date they expect to have plats ready showing every lot in the North Burial Ground. This plat it is proposed to print with an attractive illustrated catalogue containing a list of lot owners, a list of the Trust Funds and lots that are under Annual Care, as well as a list of the lots that are for sale.

In this connection perhaps it should be stated that an imperative need at the North Burial Ground is a new modern Tomb. The matter has been previously called to the attention of the City Council, and the Commissioners desire to especially recommend that action be taken looking toward providing a new Tomb for this Cemetery at as early a date as practicable.

A new Chapel and a commodious green-house should also be built, and the Commissioners believe that if these features were added to the Burial Ground they would prove a great source of advantage and convenience to the large number of people who are interested in the North Burial Ground.

The service at the North Burial Ground has also undergone a great change during the year. Lot owners now have provided for obsequies Shelter Tents that are useful in protecting mourners, not only from the summer sun, but also from the storms of winter. This adjunct has proven very effica-

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cious on many an occasion when the weather has been inclement.

Besides the work generally covered by the Commissioners, they now receive deeds of lots in trust to be used as directed by the donor, and in addition to the usual care of graves provision can also be made for perpetual flowers.

All owners holding lots by grant can now obtain deeds of the same by giving such lots perpetual care, and this regulation has been the means of inducing many persons to place their lots in the hands of the Commissioners for perpetual treatment.

During the year the Commissioners, with the Committee on North Burial Ground, and the Superintendent, have visited the Mt. Auburn and Forest Hill Cemeteries, and the Public Garden in Boston, and by direction of the City Council the Superintendent also attended the National Association of American Cemetery Superintendents in Cincinnati.

The Commissioners submit herewith a detailed statement of the Receipts and Expenditures of the North Burial Ground during the past year, together with a summary of the work performed, number of interments, etc. A detailed account of the North Burial Ground Trust Fund may be found in the Annual Report of the City Auditor.

In closing this report the Commissioners desire to place on record their recognition and the public appreciation of the efficient services rendered by the Superintendent of the North Burial Ground, Mr. James Warren, Jr., during the brief period he has been in office.

All of which is respectfully submitted,

WILLIAM K. REYNOLDS,
GEORGE L. PIERCE,
A. HERBERT ARNOLD,
HENRY A. GRIMWOOD,

Commissioners of North Burial Ground.

January 15, 1898.

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VIEW IN NORTH BURIAL GROUND LOOKING NORTH FROM ENTRANCE.

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STATEMENT OF RECEIPTS AND EXPENDITURES.

RECEIPTS.

Balance on hand January 1, 1897		$4,850 40
Sales of lots	$4,094 87	
Perpetual care of lots	9,863 00	
Perpetual care of single graves	300 00	
Certificates	32 00	
Deeds and recording	26 00	
Rents of buildings	769 00	
Improvements of lots	9,267 32	
Interments	2,624 45	
Tomb rent	435 35	
Brick graves	1,585 90	
Sundries	217 07	
		29,214 96
		$34,065 36

EXPENDITURES.

Paid Commissioners of Sinking Funds, for perpetual care of lots, and single graves	$10,163 00	
" City Treasurer, for deeds and recording	26 00	
		$10,189 00

LABOR.

Salaries	$2,940 40	
Labor on improvements	7,897 79	
Labor on interments	1,730 50	
Labor on grading	2,677 30	
Labor on avenues	1,318 80	
		$16,564 79

SUNDRY BILLS.

Covering stones, bound stones, etc.	$271 95	
Brick, lime, cement, etc.	475 71	
Grain, feed, etc.	230 24	
Manure and fertilizers	514 06	
Hardware, tools, seeds, etc.	340 46	
Paints, painting, paper, oils, etc.	136 28	
Plumbing and repairs	313 18	
Lumber	241 55	
Carpenter's work	209 18	
Marble markers	102 65	
Appraiser, twice at $5.00	10 00	
Masons' work	13 50	
Freight	116 04	
Teaming	32 84	
Amounts carried forward	$3,007 64	$26,753 79

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Amounts brought forward	$3,007 64	$26,753 79
Coal	189 25	
Blacksmithing, horseshoeing, etc	119 19	
Rent of telephones	105 00	
Stationery, printing, stamped envelopes, etc	127 92	
Harnesses and repairs, etc	196 80	
Carts, and carriage repairs	170 51	
Boxes	43 00	
Lettering markers, and repairing headstones	168 65	
Electric light wiring, etc	15 00	
Trees, shrubs, plants, etc	77 97	
Rubber hose, and rubber boots	19 75	
Flower pots	7 50	
Superintendent's Expenses to Convention of Cemetery Superintendents	75 00	
Books	91 40	
Powder and fuse	13 60	
Turf and loam	68 07	
Car fares	8 00	
Rubber stamps, etc	11 20	
Horses, (two)	275 00	
Jet for fountain	8 50	
Watering Branch and Smithfield Avenues	25 00	
Office Furniture	54 52	
Telephone and bell wire	14 25	
Advertising	92 12	
Grave tent and poles	16 90	
Sash and glass	15 16	
Sand	32 16	
Directory	5 00	
Low-gear	15 00	
Tip-cart	20 00	
Repairing lawn mower, etc	14 79	
Gas fixtures	7 50	
Ice, (office, 1897)	8 75	
Electric lights	2 00	
Stove	6 00	
Derrick rigging	12 85	
Sundries	36 88	
		5,177 83
Paid Commissioners of Sinking Funds five cents per square foot of land sold for year ending October 10, 1897		343 20
Balance in City Treasury December 31st, 1897		1,790 54
		$34,065 36
Inventory of property on hand April 1st, 1897		1,517 20
Inventory of property on hand Sept. 30th, 1897		2,367 20
Increased the Perpetual Care Funds during 1897		10,163 00

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The average number of men employed during the year was twenty-eight.

The number of interments during the year was five hundred and ninety-four.

Number entombed, sixty-five.

Number of foundations built was one hundred and sixty-five.

Number of brick graves built was eighty-six.

Number of slate graves built was one.

Number of private lots graded and turfed, thirty-eight, containing 13,123 square feet.

Number of square feet of land graded and seeded down was 250,524.

Avenues made, 1,920 square feet.

Gutters paved, 1,185 square feet.

The amount of filling done during the year was 2,193 cubic yards.

Number of lots under Perpetual Care, 682.

Number of lots under Annual Care, 709.

Number of lots deeded, 3,308.

Number of lots without deeds, 250.

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ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS

For the Year 1897.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street,
1898.

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REPORT.

PROVIDENCE, January 1, 1898.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

GENTLEMEN: As required by the statutory provisions of the laws governing this department, I again have the honor of placing in your hands my annual report for the year ending December 31, 1897, in which I trust you will find many items of information relating to the progressiveness of the city along the lines of building improvements that will interest you either locally or taking the city in its entirety. It has been my invariable custom to append to these reports in a tabulated form the amount of work done for the year. In these tables the buildings are classified according to their different uses, and these classes, together with the amount expended, are further separated into wards, so that each individual member of your honorable body can easily see for himself the amount of improvements executed in his immediate vicinity. The fourth ward must for many years to come at least show the largest amount of capital invested in the building line. This would naturally be the case from the fact that fully three-fourths of the commercial business interests of the city are located within the confines of this ward. Large blocks of capital usually seek investment where there is some reasonable show of return in the way of dividends, consequently the business centre which is included in this ward, will be the scene of building activity on a large scale in each succeeding year for a long period in the future. In the erection of buildings in this locality, the tendency has

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been more and more towards a fire proof construction throughout. This has been brought about in a large measure by the cheaper methods employed in the production of the various kinds of materials that enter into buildings of this class. Machinery has been used, and the strength of material has been utilized to an extent scarcely dreamed of a few years ago in the development of these ideas, until it hardly seems possible for much further advancement to be made in some lines of architectural work.

And yet with all the methods devised thus far, the first class fire proof building cannot be adopted by the investor only in such portions of the city as will offer a somewhat fair return for the outlay, and this unfortunately is confined to a small and restricted area. From our standpoint of view it would seem that a great stride had been made in modern business and commercial life, when the time should arrive that every building erected within a certain radius could be of the fire proof type throughout. It would certainly reduce the annual fire losses to the lowest possible amount, a desideratum devoutly to be wished for by every intelligent and well disposed citizen. It might be well in this connection to consider whether we had not very nearly arrived at a period in our city's welfare, when every building erected above a certain height should not be as far as possible of fire proof construction. The building law as it now stands compels the owner to use fire proof material in all that portion of his building above eighty feet in height, although it may be entirely of wood construction inside of the external walls below that point. This certainly should be amended, and either done away with, or else, if deemed expedient, make every building exceeding a certain number of feet in height to be in its general construction fire proof in every part.

The building law as a whole in its enforcement the past year has been carried out quite smoothly and satisfactorily, although, as in every other law that has been devised for the benefit of the public, "eternal vigilance is the price of safety." There are some I find, who are chronically or constitution-

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ally affected with law breaking principles. Those are the ones from which the most trouble emanates. Such parties being once known, however, this department has but to keep them under constant surveillance from the time a permit to build is granted until the building is completed.

Many parties in the building line, especially those coming from other places, do things or omit to do things that are contrary to the law through ignorance, but when once informed are very willing to do whatever is required. In fact this department is to a large extent a school of instruction, and has constantly increased in that direction as the old first class mechanic has been gradually disappearing. Plans are submitted by men who are doing business as contractors and builders, that apparently have no conception of the strength of materials, or the manner of using them to the best advantage. Consequently in such cases, although not necessarily obliged to do so, yet this department feels it a duty devolving upon it, to aid and assist the parties out of their dilemma, and finally get everything safe and suitable for the use it is designed for.

The matter of barns has had several changes relating to their disposition during the past year, finally resulting in the sending of each application to build new, or add to, any barn, to the alderman of the ward where such building is to be, or already is located. In a previous report I expressed an opinion that all buildings to be used for barns or stables should have permits issued for their erection under the same provisions and conditions which others are subject to, and the law relating to nuisances be so changed that those having authority over such matters could be given more enlarged powers than they have at present, and thereby keep those cases under better control that might become in any way objectionable through being improperly used, whether connected with any new or old building. The additional experience gained from observation since that report was written, has but confirmed my opinion still stronger. Not that I wish to advocate any amendment to the building law

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that may seem to deprive any one, or any number of a single prerogative they may possess, but I can readily see that as the matter now stands, cases are continually arising in which a distinction has to be made so fine as hardly admits of a comparison, as to whether a certain place is a suitable one or not for a barn to be erected thereon. This arises largely from the fact that a barn if built in a certain locality, and kept neat and clean, would not be objectionable to any one, while on the contrary if it received scarcely any attention whatever, it would soon become an insufferable nuisance to any decent neighborhood. It is a well recognized fact that the daily routine business of the city must be carried on in the usual manner, until some other and better way is adopted, and to do this, barns and stables must be tolerated, but in their toleration they can in my opinion be so controlled that they need not be considered as an object of exclusion in any locality where such a building may be thought necessary.

Considerable comment has been made during the past year about the occupancy of the streets with building materials by contractors and others more or less connected with them, and the desirability of keeping these things under better control by putting builders and contractors under bonds, and allowing no one to carry on a business of that kind without first having a license to do so from the city. This is done quite successfully with those who do business as drain layers, whether it could or not with those in the building line is a matter of speculation. It certainly is a subject that admits of much argument on both sides. It is an incontestable fact that the city is annually mulcted in quite a sum of money for damages caused by materials of various kinds being left in the streets. The builders are not, however, always to blame, there are other kinds of business carried on that usually place upon the street more or less of the material they intend to use, because it is as a general thing the most favorable location, and easiest of access in the performance of their work. It is a very rare thing to find, where such parties have placed obstructions upon the highway, that they have

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not conformed to the law by hanging lights on or about them. In many instances lanterns have been blown out by the wind, or some one could not resist the temptation to steal them, and as a consequence many accidents that have occurred can be attributed to this cause.

It is next to impossible for many of our buildings to be erected without encumbering the streets adjacent to the site, for a considerable length of time, from the fact that every inch of territory is occupied by the proposed structure. In situations of this nature it is a case of bear and forbear, the public to be discommoded for a certain period of time, while the city's progress is carried forward as desired by every one. At the same time the city is liable for all accidents that may occur by such obstructions occupying the streets, and if by requiring bonds and issuing licenses the city can recoup itself, or reduce the liabilities to a minimum, it certainly is a matter worthy of serious consideration.

My attention during the past year has been drawn to another matter that affects the city's interest pecuniarily, if not otherwise, and that is vaults or areas under sidewalks. Pecuniarily because, first if any defect exists either by fault of construction, or by the wear and tear of the elements, and any person gets hurt thereby, a suit for damages is the usual result. Secondly, the question naturally arises whether any one who has the privilege of adding much or little of the public domain to his premises, should not make adequate compensation for the same. In many cases the whole amount of space occupied by the adjoining sidewalk excepting the street walls, is added to the storage or working area of the estate to which it is attached. These additions are particularly valuable to the owners of land situated in the central or business section of the city, where it is worth many dollars per foot, and it seems but right that the least the city could require, providing the same could be done legally, would be a suitable bond from estates enjoying such privileges, holding the city harmless from any suits for damages that might arise by imperfections in the coverings of said vaults or areas.

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The most difficult problem that apparently exists in connection with these matters, is the old stairways, areas, cellarways, etc., that have been in our sidewalks for thirty, fifty, or even a hundred years. They have for all that long period been covered with thick plank covers, beveled on the edges where people travel over them, and no doubt in all this time some one must necessarily have stumbled over them, yet in the years gone by people must have considered it a matter of course, and not do as is now the custom, bring a suit against the city as soon as possible for a large amount. It certainly is a serious matter for the city, as there are a large number of these sidewalk obstructions scattered about in different sections, and apparently some sweeping legislative action is necessary to remedy the long continued evil, and to properly protect the city from further suits in this direction. During the year past nearly all the elevators in use have been examined, and nothing particularly out of the way has been found. Very few as yet have been fully equipped in accordance with Chapter 108 of the General Laws. Our endeavor is, as far as possible each year, to place in the hands of the owners of such buildings as contain elevators, a copy of the provisions of said chapter. The law relating to elevators as originally passed by the legislature, was virtually an amendment to Chapter 826, which was known as the fire escape law, and consequently carried with it all the liabilities possessed by the original act. This amendment was designated at the time of its passage as Chapter 1,271, but upon the revision and compilation of the laws of the State, by the commission appointed for that purpose, both of these chapters were merged into one, and is now known as Chapter 108. One of the most serious difficulties encountered in striving for a full enforcement of this law, is the want of mechanical appliances that are effective in every respect. Some are very nearly prohibitive in what is generally considered their exceeding high cost, while others are either crude and cumbersome, or of such a delicate nature that they easily get out of order, and soon become practically useless.

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VISITS OF INSPECTION, ETC.

Below will be found a detailed statement of the work performed by the office for the year past. As stated in a previous report, this table brings to view in a concise form the routine work that must necessarily be disposed of so long as building improvements continue. A large amount of work, such as answering inquiries, or giving advice and counsel regarding building enterprises cannot be tabulated, and is a constantly growing factor in the proceedings of this department.

To new buildings	3,852
" additions and alterations	773
" buildings moved	59
" fire-escapes, new and renewals	19
" old buildings	62
" steam boilers	32
" elevators and hoistways	117
" chimneys and smokestacks	6
" buildings damaged by fire	15
" locations of barns	51
" additions to barns	19
" vaults	3
Total	5,008

Certificates and permits have been issued as follows :

REMOVAL OF BUILDINGS.

Permits granted	55
Number of buildings included	59

VAULTS.

Permits granted	4

NOTICES TO OBTAIN PERMITS TO BUILD.

Number served	13

PERMITS TO RE-LOCATE BARNS.

Permits granted	9

PERMITS FOR FIRE DOORWAYS.

Permits granted	5

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APPLICATIONS TO USE BUILDINGS AS BARNS.

Applications granted	17

PERMITS TO ERECT STAGINGS OVER SIDEWALK.

Permits granted	171

PERMITS TO LOCATE BOILERS FOR BUILDING PURPOSES.

Permits granted	22

CERTIFICATES OF EXEMPTION.

Certificates granted	8

CONCLUSION.

There is but a slight difference between the number of permits granted for the year 1896 and those for the year past; the number being 1,219 for the former, and 1,237 for the latter date. The number acted upon range still closer for the two years, those for 1896 being 1,209, a loss of 10, while those for 1897 is 1,206, a loss of 31. The aggregate amount expended for building purposes during the year past falls a little below that of 1896, but the amount for new buildings was considerable in excess of that for 1896. The difference in favor of the year 1896 arises solely from the larger amounts used for additions and alterations, which more than counterbalances the excess shown for new buildings. On the whole, I consider the total footings for the year as very gratifying, when the state of general business is taken into consideration, and the large number of buildings and portions of buildings that are vacant, and whose owners have long and anxiously awaited their occupancy by good paying tenants.

In return for many favors shown in various ways during the year past I wish to express my sincere thanks.

Respectfully submitted,

SPENCER B. HOPKINS,

Inspector of Buildings.

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1896. NEW BUILDINGS.		WARDS. I.	II.	III.	IV.
Dwelling-houses.	No.....	34	71	40	4
	Est'd cost.....	$197,400 00	$427,000 00	$103,600 00	$19,500 00
Manufactories and workshops.	No.....	4	3	7	2
	Est'd cost.....	5,150 00	40,000 00	4,950 00	2,000 00
Offices and business buildings..	No.....	.....	... .	1	6
	Est'd cost...	.....	... .	50 00	275,000 00
Public and municipal buildings..	No.....	.....	.....	... .	1
	Est'd cost.	.....	.....	.....	50,000 00
Public buildings, churches, halls, etc.....	No.....	.....	1	1	.....
	Est'd cost.....	.....	100,000 00	1,800 00	.....
School-houses....	No.....	.....	3	.....	.....
	Est'd cost.....	.....	200,000 00	....	....
Stores	No.....	2	1	1	2
	Est'd cost.....	1,600 00	2,500 00	1,000 00	7,500 00
Store-houses... .	No.....	6	7	11	4
	Est'd cost.....	1,350 00	3,450 00	4,300 00	20,750 00
Barns	No.....	4	16	12	2
	Est'd cost.....	2,200 00	35,900 00	8,450 00	150 00
Miscellaneous....	No.....	5	21	14	1
	Est'd cost.....	950 00	15,700 00	1,050 00	100 00
Total by Wards.....		55	123	87	22
Estimated Cost by Wards.....		$208,650 00	$824,550 00	$125,200 00	$375,000 00

Total Number of New Buildings, 1896..... 774

Estimated Cost of New Buildings, 1896..... $3,088,400 00

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WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
28	85	107	22	21	34		
$111,500 00	$266,100 00	$369,900 00	$87,900 00	$79,100 00	$101,100 00	446	$1,763,100 00
8	2	2	6	1	3		
137,300 00	2,500 00	300 00	3,800 00	1,100 00	21,900 00	38	219,000 00
1	.....	2	1	1	.....		
100 00	.....	400 00	100 00	40,000 00	.....	12	315,650 00
.....	.....	2	.....	.....	1		
.....	.....	43,000 00	.....	.....	75,000 00	4	168,000 00
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....	2	101,800 00
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....	3	200,000 00
.....	4	2	1	.....	6		
.....	7,100 00	1,800 00	4,500 00	.....	4,900 00	19	30,900 00
6	13	6	5	12	6		
32,400 00	9,350 00	1,000 00	650 00	98,400 00	1,100 00	76	172,750 00
1	16	12	7	6	11		
200 00	4,300 00	6 150 00	1,750 00	3,000 00	9,950 00	87	72,050 00
2	12	13	2	4	13		
100 00	1,700 00	10,500 00	8,100 00	300 00	6,650 00	87	45,150 00
46	132	146	44	45	74		
$281,600 00	$271,050 00	$433,050 00	$106,800 00	$221 900 00	$220.600 00		

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1896. ADDITIONS AND ALTERATIONS.		WARDS. I.	II.	III.	IV.
Dwelling-houses.	No.....	26	32	21	12
	Est'd cost.....	$14,850 00	$14,750 00	$5,900 00	$6,350 00
Manufactories and workshops.	No.....	3	1	4	2
	Est'd cost...	1,150 00	100 00	35,300 00	8,500 00
Office and business buildings.	No.....	3	4	..... .	13
	Est'd cost.....	100,600 00	1,950 00	.....	60,500 00
Public and municipal buildings..	No.....	.....	.....	1	.....
	Est'd cost.....	.....	....	100 00	.....
Public buildings, churches, halls, etc.	No.....	....	.....	.....	1
	Est'd cost.....	.....	....	..... .	10,000 00
School-houses....	No.....	1	1	.....	.....
	Est'd cost.....	3,000 00	1,500 00	.....	.....
Stores.....	No.....	3	2	2	4
	Est'd cost.....	350 00	550 00	300 00	1,950 00
Store-houses. ...	No.....	3	....	4	3
	Est'd cost.....	3,300 00	.....	650 00	31,700 00
Barns	No.....	3	3	3	2
	Est'd cost.....	400 00	350 00	250 00	150 00
Miscellaneous....	No.....	2	7	11	5
	Est'd cost.....	150 00	9,750 00	750 00	600 00
Total by Wards.....		44	50	46	42
Estimated Cost by Wards.....		$123,800 00	$28,950 00	$43,250 00	$119,750 00

Total Number of Additons and Alterations, 1896..... 476

Estimated Cost of Additions and Alterations, 1896..... $513,800 00

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WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
26	47	44	16	37	29		
$15,650 00	$18,450 00	$22,200 00	$14,200 00	$22,800 00	$13,000 00	290	$148,150 00
1	.....	1	.....	4	7		
100 00	.....	50 00	.....	2,000 00	45,550 00	23	92,750 00
2	.....	.....	.....	2	1		
300 00	.....	.....	.....	150 00	100 00	25	163,600 00
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....	1	100 00
.....	.....	1	.....	1	.....		
.....	.....	100 00	.....	8,000 00	.....	3	18,100 00
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....	2	4,500 00
1	2	2	1	4	3		
350 00	700 00	200 00	300 00	1,200 00	600 00	24	6,500 00
2	4	1	1	3	2		
1,200 00	700 00	5,000 00	200 00	8,250 00	1,350 00	23	52,350 00
3	7	4	1	2	5		
650 00	1,300 00	400 00	5,000 00	650 00	1,400 00	33	10,550 00
1	7	7	4	2	6		
50 00	1,750 00	2,500 00	300 00	100 00	1,250 00	52	17,200 00
36	67	60	23	55	53		
$18,300 00	$22,900 00	$30,450 00	$20,000 00	$43,150 00	$63,250 00		

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1897. NEW BUILDINGS.		WARDS. I.	II.	III.	IV.
Dwelling-houses.	No.....	28	71	40	4
	Est'd cost.....	$230,900 00	$348,400 00	$118,800 00	$17,500 00
Manufactories and workshops.	No.....	2	1	3	1
	Est'd cost.....	600 00	200 00	11,900 00	8,000 00
Office and business buildings.	No.....	1	1	2	9
	Est'd cost.....	200 00	800 00	100 00	753,000 00
Public and municipal buildings..	No.....	.....	.....	.....	.....
	Est'd cost.....	.....	.....	.....	.....
Public buildings, churches, halls, etc.....	No.....	1	1	.....	2
	Est'd cost.....	9,000 00	5,000 00	.....	240,000 00
School-houses ...	No.....	.....	1	.....	.....
	Est'd cost.....	.....	25,000 00	.....	.....
Stores.....	No.....	1	3	4	6
	Est'd cost.....	10,000 00	300 00	1,400 00	15,500 00
Store-houses.....	No.....	5	2	6	2
	Est'd cost.....	2,250 00	250 00	900 00	20,800 00
Barns	No.....	3	10	16	.....
	Est'd cost.....	4,200 00	7,400 00	15,650 00	.....
Miscellaneous....	No.....	1	16	15	6
	Est'd cost.....	50 00	32,300 00	3,250 00	3,250 00
Total by Wards.....		42	106	86	31
Estimated Cost by Wards.....		$257,200 00	$419,650 00	$152,000 00	$1,058,050 00

Total Number of New Buildings, 1897..... 777

Estimated Cost of New Buildings, 1897. .. .. $3,224,125 00

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WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
17	85	88	36	32	75		
$75,700 00	$280,200 00	$293,600 00	$118,600 00	$129,900 00	$212,300 00	476	$1,825,900 00
2	1	7	4	1	10		
17,600 00	200 00	4,400 00	1,900 00	5,500 00	54,700 00	32	104,400 00
.....	3	2	2	1	1		
.....	1,700 00	20,300 00	1,600 00	1,000 00	200 00	22	778,900 00
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....		
.....	.....	2	.....	.....	1		
.....	.....	20,000 00	.....	.....	6,000 00	7	280,000 00
.....	.....	1	.....	.....	1		
.....	.....	3,500 00	.....	.....	25,000 00	3	53,500 00
1	2	2	1	1	3		
2,000 00	2,000 00	700 00	300 00	300 00	1,150 00	24	33,650 00
3	10	7	2	7	6		
1,700 00	3,950 00	1,250 00	400 00	2,800 00	5,850 00	51	40,150 00
2	9	17	4	3	14		
400 00	5,100 00	11,750 00	2,400 00	2,400 00	8,050 00	73	57,350 00
4	17	11	3	4	7		
500 00	2,100 00	1,300 00	5,200 00	1,400 00	925 00	84	50,275 00
29	127	137	52	49	118		
$97,300 00	$295,250 00	$356,800 00	$130,400 00	$143,300 00	$314,175 00		

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1897. ADDITIONS AND ALTERATIONS.		WARDS. I.	II.	III.	IV.
Dwelling-houses.	No	27	24	40	18
	Est'd cost	$36.550 00	$6,400 00	$12,975 00	$10,000 00
Manufactories and Workshops.	No	2	1	1	1
	Est'd cost	8,500 00	5,000 00	50 00	6,000 00
Office and Business Buildings.	No	1	1	.....	13
	Est'd cost	300 00	500 00	.....	22,650 00
Public and Municipal Buildings.	No	.....	.....	.....	.....
	Est'd cost	.....	.....	.....	.....
Public Buildings, Churches, Halls, etc.	No.	.....	.....	1	.....
	Est'd cost	.....	.....	100 00	.....
School-houses	No	.....	2	.....	.....
	Est'd cost	.....	1,200 00	.....	.....
Stores	No	4	1	4	15
	Est'd cost	2,300 00	300 00	1,450 00	4,200 00
Store-houses	No	2	1	.....	.....
	Est'd cost	100 00	50 00	.....	.....
Barns	No	.....	5	6	1
	Est'd cost	.....	700 00	2,900 00	300 00
Miscellaneous	No	2	5	3	7
	Est'd cost	5,100 00	1 000 00	150 00	1,525 00
Total by Wards		38	40	55	55
Estimated Cost by Wards		$52,550 00	$15,150 00	$17,625 00	$44,675 00

Total Number of Additions and Alterations, 1897..... 175

Estimated Cost of Additions and Alterations, 1897..... $335,775 00

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WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
21	39	44	20	33	33		
$5,125 00	$18,975 00	$20,050 00	13,600 00	$21,300 00	$16,175 00	299	$161,150 00
1	3	3	1	4	1		
400 00	1,700 00	4,900 00	50 00	10,000 00	1,500 00	18	38,100 00
1	.....	.....	2	1	.....		
50 00	.....	.....	500 00	500 00	.....	19	24,500 00
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	1		
.....	.....	.....	.....	.....	60,000 00	2	60,100 00
.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....	2	1,200 00
4	.....	2	4	2	4		
1,300 00	.....	300 00	900 00	200 00	600 00	40	11,550 00
1	1	2	2	1	1		
50 00	100 00	2,000 00	300 00	1,500 00	150 00	11	4,250 00
2	12	9	3	2	5		
300 00	2,675 00	1,700 00	575 00	350 00	650 00	45	10,150 00
3	3	6	3	3	4		
850 00	150 00	12,200 00	1,700 00	1,800 00	300 00	39	24,775 00
33	58	66	35	46	49		
$8,075 00	$23,600 00	$41,150 00	$17,625 00	$35,650 00	$79,375 00		

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1897.	Tenements by Wards.										
Wards	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	
Ward Total	62	125	84	17	41	159	148	77	102	149	
Whole total for the year 1897											964

The table below illustrates the proportion each ward bears to the other in the amount expended for building improvements of all kinds:

4th Ward	First.	1st Ward	Sixth.
2d "	Second.	9th "	Seventh.
7th "	Third.	3d "	Eighth.
10th "	Fourth.	8th "	Ninth.
6th "	Fifth.	5th "	Tenth.

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1896.	RECAPITULATION.	
774	New Buildings	$3,088,400 00
476	Additions and Alterations	513,800 00
	Total	$3,602,200 00
1897.		
777	New Buildings	$3,224,125 00
475	Additions and Alterations	335,775 00
	Total	$3,559,900 00
1897.		
	Tenements added from new buildings, additions and alterations	964
	Total for year 1896	874

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REPORT

OF THE

Joint Special Committee

ON

TRAIN SHEDS.

[Presented January 17, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT

To the Honorable the City Council of the City of Providence:

The Joint Special Committee appointed by Resolution No. 480, approved December 17th, 1897, relative to Train Sheds, which was authorized by Resolution No. 529, approved December 31st, 1897, to approve "any minor modifications of the 'City Plan for Train Sheds'" adopted by said Resolution No. 529, series of 1897; and which said Committee was also directed by Resolution No. 18, approved January 4th, 1898, "to report what action is necessary to facilitate the opening the new passenger station," etc, respectfully beg leave to report:

That pursuant to the authority vested in said Committee by the City Council, they invited Charles P. Clark, President of the New York, New Haven and Hartford Railroad Company to confer with them in relation to the Train Shed problem, and when he accepted this invitation the Committee had strong hopes that something would be accomplished, but they were very much disappointed at the result of this conference. The President of the Consolidated Road was asked if he would accept the City Plan for Train Sheds or any modification thereof, and he declined not only to consider said plan or modification of it, but also to consider with the Committee any plans for the solution of this vexatious question. His attitude was one of opposition to any plan that embraced the single span idea of construction, thus avoiding a forest of posts in so large a structure. Indeed, after a spirited discussion, the Committee elicited from him the

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positive statement that he would not accept any plan of the single arch style.

The President of this Company also led your Committee to believe that there was no hope of a settlement of this controversy except by a further recourse to the Supreme Court, and that he would not accept anything except the old style of platform shelters which he had previously proposed, and which the City Council had unanimously rejected. Mr. Clark also said that he would build whatever he was ordered to build, — presumably meaning ordered by the Supreme Court, — and he distinctly declined to recognize the authority of this Committee to negotiate respecting Train Sheds, or the authority of the City Council to determine the style or character of the Train Sheds that shall be erected at the Providence Station.

But he also says that he wants to put up the best Train Shed he can to accommodate the people of this City and State. Your Committee fear that if the City waits until he determines what is the best plan that it will wait in vain. His proposition to wait and find out what is the best shed by beginning to build the poorest one and changing and experimenting with it at his pleasure is absurd on the face of it. The only definite proposal which could be extracted from Mr. Clark was the following suggestion for arbitration which he submitted in writing, viz. :

" The Company claims that the City indicated the general description and character of the protection for passengers it wished by the proceedings authorizing the erection of the present station. The Railroad Company desires only to furnish that protection in the form best suited. It agreed to the form suggested by the City through its engineer and its consulting engineer in conference with members of the Committee of December 17, 1897, which form was also approved by the City's former Committee on Terminal Facilities.

"The Company is willing to further modify the plans as

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may be recommended by three competent persons, one to be chosen by the Mayor, one by the President of the Railroad Company, and the third agreed upon by the Mayor and the President or by the other two, or appointed by the Governor of the State, provided only that the City Council will approve the plans thus modified. The Company will then proceed at once to erect the structure.

"As to compensation, the Railroad Company will pay the compensation and expenses of such persons, either in whole or in such proportion as the Committee of the City Council may desire."

The Committee feel that the City is right in its attitude toward this corporation. As there is now no hope of a settlement of this question, your Committee believe that it is for the best interests of the City and its citizens to at once proceed with our case before the Courts and obtain a decision as soon as possible.

Under Resolution No. 407-B, approved October 8, 1897, your Committee believe that the City Solicitor has ample authority to proceed with the prosecution of this case to a final settlement.

All of which is respectfully submitted,

For the Committee,

WILLIAM C. BAKER,

Mayor and Chairman.

January 15, 1898.

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[COPY.]

No. 407B. Resolution Directing the City Solicitor to Compel the New York, New Haven and Hartford Railroad Company to Construct and Complete such Train Sheds as are provided for in Chapter 868 of the Public Laws, Passed March 28, 1890.

[Approved October 8, 1897.]

WHEREAS, The New York, New Haven and Hartford Railroad Company has failed to construct its passenger station and approaches thereto, and especially train sheds, according to the plans mentioned in Chapter 868 of the public laws, passed by the General Assembly March 28, 1890; and,

WHEREAS, No modification of said plans as to train sheds has since been made by the City Council, or by any other party authorized to make such modification; and,

WHEREAS, Said Railroad Company has not constructed train sheds for said passenger station, now therefore be it

RESOLVED, That the City Solicitor be and he is hereby directed to take such action in the premises as may be necessary by information, injunction or otherwise, to compel said Company to forthwith construct and complete such train sheds as is provided for in said act, and in accordance with said plans referred to in said act.

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FIFTEENTH ANNUAL REPORT

OF THE

Superintendent of Health,

OF THE

CITY OF PROVIDENCE,

FOR THE

YEAR ENDING DECEMBER 31, 1897.

[Presented January 20, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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MAYOR,

WILLIAM C. BAKER.

BOARD OF ALDERMEN,

Ex-officio

BOARD OF HEALTH,

1898.

PRESIDENT,

IRA WINSOR.

WALTER B. VINCENT,	FIRST WARD.
ABRAHAM A. GRAY,	SECOND WARD.
DENNIS F. McCARTHY,	THIRD WARD.
HENRY B. WINSHIP,	FOURTH WARD.
WILLIAM K. REYNOLDS,	FIFTH WARD.
JAMES F. FREEMAN,	SIXTH WARD.
HORACE REMINGTON,	SEVENTH WARD.
EDWIN LOWE,	EIGHTH WARD.
IRA WINSOR,	NINTH WARD.
JAMES H. McGANN,	TENTH WARD.

CLERK,

WILLIAM E. CLARKE.

COMMITTEE ON HEALTH DEPARTMENT,

HORACE REMINGTON, *Chairman.*

JAMES H. McGANN, ABRAHAM A. GRAY

SUPERINTENDENT OF HEALTH AND CITY REGISTRAR,

CHARLES V. CHAPIN, M. D.

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VACCINATING PHYSICIAN,

CHARLES H. LEONARD, M. D.

MEDICAL INSPECTOR,

EUGENE P. KING, M. D.

INSPECTOR OF NUISANCES,

WALTER J. LEWIS.

SIGNAL OFFICER AT QUARANTINE,

JOHN S. ADAMSON.

INSPECTOR OF PROVISIONS,

MARK A. GOLRICK.

CLERK,

GRACE I. WOODS.

DISINFECTOR,

EDWARD P. TABOR.

CHIEF REGISTRATION CLERK,

M. JOSEPHINE PECKHAM.

MARRIAGE LICENSE CLERK,

CLARA V. MASON.

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REPORT.

OFFICE OF THE SUPERINTENDENT OF HEALTH,
January 20, 1898.

TO THE HONORABLE THE CITY COUNCIL:

The Superintendent of Health hereby presents his report for the year ending December 31, 1897:

The number of deaths reported during the year was 2,805, which was 150 less than in the preceding year. The population of the city, according to the State census taken in June, 1895, was 145,472, and the estimated population for 1897 was 154,000, and the death rate based upon this was 18.21, which is less than in any year since 1871.

There were 265 deaths from diarrhœal diseases in 1897, or 29 less than in the preceding year. The 265 deaths were 9.44 per cent. of the total deaths. This was the smallest number of deaths from diarrhœal diseases since 1887.

There were 18 deaths from malarial diseases in 1897, as compared with 19 in the preceding year.

CONTAGIOUS DISEASES.

The diseases referred to under this heading in this report are measles, whooping cough, scarlet fever, typhoid fever, diphtheria, and phthisis.

Measles caused 18 deaths in 1897. The deaths in previous years since 1856 are shown in the following table:

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1856 1	1867 0	1878 50	1889 14
1857 2	1868 4	1879 0	1890 31
1858 40	1869 6	1880 3	1891 4
1859 0	1870 16	1881 25	1892 10
1860 0	1871 1	1882 4	1893 63
1861 6	1872 7	1883 8	1894 5
1862 1	1873 28	1884 7	1895 40
1863 16	1874 4	1885 8	1896 19
1864 7	1875 0	1886 7	1897 18
1865 7	1876 0	1887 90	—
1866 9	1877 2	1888 2	42 years....565

Physicians are now required to report this disease, but comparatively few cases are reported, due chiefly to the fact that in measles the doctor is rarely called. The number reported in 1897 was 84, in 1896 the number was 278.

Whooping cough caused 16 deaths in 1897. The deaths in previous years since 1856 are shown in the following table :

1856 10	1867 2	1878 43	1889 44
1857 2	1868 13	1879 15	1890 30
1858 7	1869 16	1880 11	1891 53
1859 22	1870 24	1881 40	1892 8
1860 19	1871 10	1882 40	1893 11
1861 25	1872 10	1883 4	1894 53
1862 3	1873 18	1884 28	1895 27
1863 6	1874 33	1885 24	1896 24
1864 10	1875 8	1886 23	1897 16
1865 31	1876 35	1887 12	—
1866 8	1877 16	1888 28	42 years....862

The number of deaths from scarlet fever in 1897 was 11, which was 22 less than in the preceding year. This was 0.39 per cent. of the deaths from all causes ; less than in any year since 1890.

There were 24 deaths from typhoid fever, or 0.85 per cent. of the deaths from all causes. This was 16 less than in

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1896, and less in proportion to the population than in any year since registration was begun.

Diphtheria caused 78 deaths in 1897, 47 less than in the preceding year, and less than in any year since 1894. The 78 deaths were 2.78 per cent. of the deaths from all causes.

There were 322 deaths from phthisis in 1897, or 28 less than in 1896. This was 11.44 per cent. of all deaths. There were less deaths from this disease in proportion to the population than ever before.

The following pages contain an account of the cases of contagious disease that came under the notice of the health department during the last thirteen years.

SCARLET FEVER.

The table on page 8 shows the cases and deaths from scarlet fever for each month during the last thirteen years, and the number and ratio of deaths and cases for the last fourteen years. There were 266 less cases and 22 less deaths in 1897 than in 1896.

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SCARLET FEVER.

Year.	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total Cases.	Total Deaths.	Ratio of Deaths to Cases.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.			
1884.....	.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		538	57	10.59
1885.....	69	5	43	8	42	8	23	4	24	..	19	1	10	2	13	1	30	2	45	3	25	1	40	3	383	38	9.92
1886.....	56	4	39	3	16	..	19	1	15	1	4	2	14	2	12	4	11	1	15	3	16	4	20	5	237	30	12.65
1887.....	54	8	38	3	39	4	48	1	22	2	21	5	26	8	42	10	75	17	256	47	122	22	105	26	848	153	18.04
1888.....	91	18	49	19	44	9	45	13	31	8	18	4	15	1	9	1	13	1	12	2	21	3	13	..	361	79	21.88
1889.....	16	4	13	..	34	3	19	8	11	3	14	2	3	4	6	..	13	..	9	1	14	..	10	..	162	25	15.43
1890.....	1	..	6	1	20	1	16	1	13	2	9	..	3	..	1	..	5	..	4	..	24	2	34	1	136	8	5.88
1891.....	53	1	53	..	47	5	48	2	40	..	13	1	17	1	9	..	11	1	34	2	40	..	37	4	402	17	4.19
1892.....	45	4	48	5	65	6	50	1	36	4	42	3	15	1	10	2	17	..	24	..	43	4	77	7	472	37	7.84
1893.....	70	8	64	6	63	6	95	9	122	12	89	14	69	12	66	6	46	14	58	2	51	1	72	7	865	97	11.21
1894.....	99	8	48	6	37	4	54	8	50	8	28	..	33	2	44	2	48	7	103	5	89	3	112	3	754	56	7.42
1895.....	144	8	120	7	129	12	129	16	52	6	48	4	54	2	60	4	56	..	54	2	78	2	65	1	989	64	6.47
1896.....	97	3	75	8	53	6	40	1	39	1	27	1	21	..	23	1	33	2	46	1	76	2	58	7	588	33	5.66
1897.....	46	..	23	..	21	2	29	3	30	..	25	1	12	..	15	..	22	1	30	3	37	..	38	1	328	11	3.35
Totals....	841	71	619	66	610	66	615	68	494	47	357	38	292	35	310	31	380	46	690	71	636	44	681	65	6,525	648	9.93

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Physicians are required to report contagious diseases, but sometimes neglect it. How often is shown by the following:

Year.	Scarlet Fever.	Typhoid Fever.	Diphtheria.
1886	14	11	21
1887	125	18	62
1888	29	4	50
1889	4	6	15
1890	2	4	7
1891	6	7	9
1892	6	6	1
1893	11	9	2
1894	24	12	1
1895	18	13	8
1896	6	13	10
1897	5	12	6

In addition to the above, during 1897 seven cases of scarlet fever and eighteen of diphtheria were discovered by the medical inspector where there was no physician in attendance.

The following table gives the results of my observations during the past ten years concerning certain points in the etiology and prevention of scarlet fever. This table for the years previous to 1892 does not include all the families and cases:

	1887 to 1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Number of families in which there was more than one susceptible child.	615	198	220	345	359	478	305	174	2,694
Number of these in which there was a second case..	334	78	90	150	177	216	128	58	1,231
Number of susceptible children in all the above families	2,270	605	711	1,212	1,298	1,750	1,032	644	9,517
Number of these children who were attacked	1,194	341	389	642	687	876	526	318	4,973

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	1887 to 1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Number of additional families with susceptible children in the same house..	273	98	154	198	244	123	197	132	1,419
Number of susceptible children in these families....	709	238	369	493	587	572	545	340	3,943
Number of these additional families attacked.....	45	10	21	16	20	27	16	6	161
Number of children in these families who were attacked.....	81	12	44	34	34	33	41	9	288
Number of tenements disinfected where there were other families with susceptible children in the house.....	119	20	26	42	109	177	139	86	718
Number of above where the disease spread to other families in the house.....	10	2	1	2	2	2	10	0	29
Number of susceptible children who were at once removed.....	60	27	42	86	102	117	174	106	714
Number of these who were attacked on their return..	4	0	2	8	4	6	5	0	29
Number of children who were exposed and who had previously had scarlet fever.....	...	...	...	...	100	178	112	62	452
Number of these who were attacked a second time...	...	...	...	...	13	27	20	3	63
Number of adults who were exposed and who had previously had scarlet fever..	...	...	...	...	230	311	120	79	740
Number of these who were attacked a second time...	...	...	...	...	8	2	1	0	11
Number of families with susceptible children where there was isolation	...	41	27	127	37	53	51	48	384
Number of families where more than one child was attacked.....	...	23	13	32	14	15	17	27	141
Number of susceptible children in families where there was isolation	...	130	69	291	96	172	161	143	1,062
Number of the above who were attacked.....	...	52	23	108	52	74	83	60	452

There is nothing new in the above tables, and the bearings of the various facts there recorded have been quite fully discussed in previous reports. As in previous years the value of the removal of the well children from the infected house or of the sick person to the hospital is well shown. Of the 106 well children who were removed from their homes,

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none were attacked on their return. There were also in 1897 eighteen children in families of persons who were removed to the hospital suffering from scarlet fever. In one instance after return of the patient from the hospital another child in the family contracted the disease. In this instance the first child was in the hospital until the thirty-fifth day after the attack, and until desquamation had ceased. A complete bath was given and the clothes were all steamed. The second child was taken sick five days after the return of the first.

During the spring an epidemic of scarlet fever occurred in the Harriet Street School, which is of interest as it is likely that it might have been prevented by a daily inspection of the schools. There were eleven cases and one death among the children in this school between May 19 and June 20. There were three or four cases connected with the Oxford Street School, which is the grammar school for that district, and a half dozen more cases in the neighborhood, some of them in the families of school children. About the first of June it was discovered that a child was attending Harriet Street, and another Oxford Street, who were desquamating from scarlet fever. These children were brother and sister, and had been taken sick May 3 and 5. They were not much sick, and no doctor was called. The boy, who attended Harriet Street School, was absent only a day, but the girl was out a week or more. They lived at 287 Oxford Street. Why more cases did not develop at Oxford Street School where the girl was attending, may possibly be explained by the fact that older children, such as attend grammar schools, are not of so susceptible an age, and more of them have had the disease; also there is less passing of books and school material from child to child in the higher grades.

A most annoying series of cases occurred in the autumn due to what appears to have been gross carelessness on the part of the quarantine authorities in New York. On September 7th three children appeared at the out-patient department of the Rhode Island Hospital desquamating from scar-

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let fever. They were at once admitted to the contagious ward. Investigation showed that these children had embarked on the steamer *Maasdam*, of the Holland America Line, at Boulogne, August 25th. The next day they presented the eruption of scarlet fever. On arriving at New York September 4th, they were desquamating, and the mother stated that she called the attention of the ship's surgeon to this fact. They were, however, permitted to land, and left New York September 6th on the Fall River Line, and reached Providence the next day. They went to the house of a friend at 253 Willard Avenue. The friend had several children, and being suspicious of what was the trouble with the arrivals took them to the hospital. Later her own children were attacked, and one died. From that time till the present there has been scarlet fever in the neighborhood, particularly among the Hebrews, to which race the immigrants belonged. The facts in this case were referred to the agent of the State Board of Charities, who wrote to the Commissioners of Immigration in New York. The correspondence was referred by them to the Holland America Line, and to the Health Officer of the Port of New York, but as yet they have not been heard from in regard to the matter.

The following table shows the number and percentage of persons of different ages exposed to scarlet fever who contracted it, and also the number who did not. When I began to collect these facts the inspector was not careful to obtain the age in every case, so that until 1890 only a portion of the cases are contained in the table, and it was only in 1894 that the facts in regard to all the adults in the family were obtained.

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SCARLET FEVER.

Ages.	Cases.									Number Exposed.									Ratio of cases to number exposed.
	1887-90.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Total.	1887-90.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Total.	
Under 1 year.	29	12	23	22	10	50	10	11	167	117	40	54	77	76	178	49	24	615	27.1
1 "	39	15	21	45	41	38	34	15	248	93	28	45	74	68	147	34	19	508	48.8
2 years	108	23	33	73	56	72	43	24	432	193	45	52	108	88	185	32	23	726	59.4
3 "	108	30	39	74	76	101	54	32	514	190	49	62	98	102	243	25	19	788	65.2
4 "	116	32	43	83	62	89	59	35	519	186	46	59	110	88	215	26	16	746	69.5
5 "	91	48	56	89	84	106	61	32	567	197	59	77	117	125	243	24	13	855	66.3
6 "	113	42	42	98	75	91	52	30	543	188	59	58	129	94	219	27	12	786	69.0
7 "	103	40	42	72	70	102	53	32	514	169	61	61	111	96	252	23	15	788	65.2
8 "	83	17	32	66	55	53	43	31	380	168	41	46	104	87	158	30	10	644	59.0
9 "	74	31	32	43	35	53	27	18	313	166	49	52	77	58	144	21	17	584	53.5
10 "	51	18	13	32	43	51	33	14	255	96	33	33	70	69	134	19	15	469	54.3
11 "	43	24	18	25	19	27	23	4	183	104	42	27	54	47	82	19	16	391	46.8
12 "	34	8	15	24	27	30	23	8	169	104	27	37	58	46	98	22	13	405	41.7
13 "	33	10	9	16	12	22	7	6	115	83	20	21	46	38	74	24	14	320	35.9
14 "	21	14	9	12	16	16	11	4	103	76	19	19	43	44	66	23	19	309	33.3
15 "	18	7	1	10	11	12	8	2	69	67	15	12	30	37	48	13	13	235	29.3
16 "	12	8	4	6	5	10	8	4	57	47	16	13	27	30	53	20	16	222	25.6
17 "	8	2	5	9	3	9	5	3	44	33	6	13	21	23	41	15	18	170	25.8
18 "	4	3	6	2	3	5	3	....	26	10	5	14	29	19	40	19	14	141	18.4
19 "	6	3	1	8	....	5	3	5	31	16	6	4	19	20	37	22	12	136	22.8
20 "	8	3	2	5	3	4	....	....	25	18	8	6	16	16	30	23	8	125	20.0
Adults.....	42	15	23	46	43	42	23	13	246	106	81	138	509	847	1377	838	506	4402	5.8
Total.....	1144	405	469	860	749	988	583	323	5520	2427	755	903	1918	2118	4064	1348	832	14365	38.4

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In the above table are not included two cases that occurred in the St. Aloysius Orphan Asylum, and two in the general wards of the Rhode Island Hospital, and one tramp who was found on the street.

DIPHTHERIA.

The use of the culture in assisting in the diagnosis of diphtheria increased during the year, and is now very general throughout the city. There are only a few physicians who do not put enough confidence in it to use it. In 1896 there were 229 cases of sickness reckoned as diphtheria and occurring in houses which were placarded on the physicians diagnosis, but in which no cultures were taken. This was a little over 25 per cent. of all the cases occurring during the year. In 1897, of the 631 cases reckoned as diphtheria, only 68, or 17.7 per cent. occurred in houses where no culture was taken. I do not mean to say that in the other 563 cases a positive culture was obtained in every case, but that it was obtained from at least one member of the family at the time the sickness occurred, or at the time of convalescence. It seems fair to consider all cases of pharyngeal inflammation under such conditions as due to the Klebs-Loeffler bacillus.

Except on page 18 the 68 cases in which the diagnosis depended on clinical signs alone, are also reckoned as diphtheria, and are included in the tables.

The following table shows the cases and deaths from diphtheria from each month for the last thirteen years, and the ratio of deaths to cases during the last fourteen years :

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DIPHTHERIA.

Year.	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total Cases.	Total Deaths.	Ratio of Deaths to Cases.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.			
1884.....	.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		193	58	30.05
1885.....	29	6	15	3	10	..	5	1	5	2	5	..	5	4	3	3	5	3	16	3	22	3	38	8	158	36	23.44
1886.....	25	4	33	7	19	6	12	8	27	6	34	8	33	2	9	8	13	14	33	15	38	7	46	14	322	98	30.43
1887.....	34	11	19	8	11	2	25	7	14	10	17	10	7	4	14	9	43	15	50	13	38	12	32	8	304	109	35.85
1888.....	33	9	20	5	25	14	16	5	20	6	6	4	8	8	7	3	14	4	25	12	28	9	28	18	230	98	42.60
1889.....	34	10	19	7	27	10	18	5	19	14	21	4	22	8	19	5	25	9	47	8	25	6	27	11	303	97	32.01
1890.....	42	17	42	15	36	7	22	9	23	7	21	4	13	6	33	8	12	6	14	7	15	3	28	5	301	94	31.22
1891.....	17	4	40	4	16	6	24	3	15	6	6	4	14	3	5	2	17	4	27	6	22	5	15	1	218	48	21 91
1892.....	1	1	3	5	25	4	12	3	14	4	17	3	6	3	5	1	3	2	18	4	20	4	14	5	138	39	28.26
1893.....	8	2	12	2	22	4	27	5	7	3	15	4	9	4	4	2	23	4	27	7	14	3	21	6	189	46	24.33
1894.....	15	5	11	4	7	6	18	4	24	6	20	7	2	..	4	..	11	2	14	3	17	5	23	4	166	46	27.71
1895.....	45	6	15	1	7	2	25	2	34	4	20	7	16	4	26	6	34	9	38	10	57	13	69	15	386	79	20.46
1896.....	71	10	62	6	67	17	77	11	64	12	48	8	48	9	31	4	57	9	108	16	137	16	120	7	890	125	14.07
1897.....	82	8	68	7	72	10	66	6	56	9	43	7	14	4	20	5	29	1	70	4	76	11	38	6	631	78	12.36
Totals....	436	93	359	74	344	88	347	69	322	89	273	70	197	59	180	56	286	82	487	108	509	97	499	108	4236	993	23.44

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The following table shows the number and percentage of persons of different ages exposed to diphtheria who contracted it, and the number who did not. This table includes both the Klebs-Loeffler diphtheria and clinical diphtheria. When I began to collect these facts in 1889, the inspector was not careful to obtain the age in every case, so that until 1890 only a portion of the cases are contained in the table, and it was only since 1893 that the facts in regard to all the adults in the family were obtained. The number exposed means all the members of the family where the disease occurred.

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DIPHTHERIA.

Ages.	Cases.									Number Exposed.									Ratio of cases to number exposed.
	1889–90.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Total.	1889–90.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Total.	
Under 1 year.	13	3	4	5	4	13	17	15	74	59	15	21	25	23	46	91	67	347	21.3
1 "	24	8	6	12	7	10	52	31	150	43	22	13	17	25	37	97	36	290	51.7
2 years	52	15	10	17	14	34	64	42	248	74	27	19	29	29	52	108	39	377	65.7
3 "	44	29	10	20	9	35	68	44	259	76	39	21	25	22	57	110	31	381	67.9
4 "	47	18	12	19	18	36	82	54	286	71	32	27	31	24	54	131	42	412	69.4
5 "	48	23	13	10	25	20	72	67	278	75	41	28	25	37	48	132	31	417	66.6
6 "	42	9	8	11	17	24	61	58	233	68	23	14	30	29	55	105	42	366	63.6
7 "	31	13	14	8	5	30	63	43	207	69	23	26	19	19	47	125	37	365	56.7
8 "	33	11	4	15	13	22	60	37	195	58	29	10	26	32	44	121	48	368	52.9
9 "	23	8	10	6	5	12	44	31	139	52	18	19	18	16	38	89	36	286	48.6
10 "	26	6	7	3	4	19	35	24	124	49	16	19	17	18	31	79	38	267	46.4
11 "	17	7	3	2	4	11	41	21	106	39	10	11	14	15	26	85	24	224	47.3
12 "	27	10	3	5	8	17	20	19	109	53	25	9	18	12	32	65	33	247	44.1
13 "	8	3	1	2	3	12	24	15	68	28	10	9	8	10	31	66	34	196	34.6
14 "	11	2	....	5	1	7	16	11	53	33	6	5	12	6	20	68	23	173	30.6
15 "	6	6	1	1	1	3	10	7	35	17	13	6	6	12	23	49	31	157	22.2
16 "	11	2	1	....	1	3	8	5	31	30	9	6	13	6	17	47	19	147	21.0
17 "	5	9	1	2	3	3	11	11	45	12	16	3	8	6	15	43	25	128	35.1
18 "	7	3	....	4	1	2	2	3	22	14	8	7	8	6	12	38	16	109	20.1
19 "	2	....	2	2	2	1	10	8	27	8	2	4	12	4	8	37	18	93	29.0
20 "	4	1	2	1	1	3	11	1	24	9	4	2	7	3	6	41	14	86	27.9
Adults.....	85	32	21	39	17	50	97	78	419	752	181	210	330	273	272	1386	980	4404	9.5
Totals.....	566	218	133	192	163	367	868	625	3133	1689	569	489	718	627	971	3113	1664	9840	31.8

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Not included in the above table were five cases at Rhode Island Hospital, and one at the Rhode Island Institution for the Deaf.

Last year I prepared a table similar to the above, but containing only cases from families in which Klebs-Loeffler bacilli were found. Below is given this table with similar data for this year added:

CASES IN WHICH KLEBS–LOEFFLER BACILLI WERE FOUND.

Ages.	Cases.			Number Exposed.			Ratio of cases to number exposed.
	1896.	1897.	Total.	1896.	1897.	Total.	
Under 1 year.....	11	10	21	66	63	129	16.2
1 "	37	27	64	77	33	110	58.1
2 years.....	48	36	84	91	35	126	66.6
3 "	49	37	86	94	27	121	71.0
4 "	61	50	111	114	38	152	73.0
5 "	48	62	110	113	28	141	78.0
6 "	47	54	101	91	38	129	78.2
7 "	47	41	88	104	29	133	66.1
8 "	50	36	86	102	43	145	59.3
9 "	39	29	68	73	33	106	64.1
10 "	30	22	52	66	35	101	51.4
11 "	31	16	47	79	23	102	46.0
12 "	13	17	30	49	29	78	38.4
13 "	19	13	32	53	30	83	38.5
14 "	13	11	24	59	21	80	30.0
15 "	10	4	14	40	29	69	20.2
16 "	8	5	13	33	16	49	26.5
17 "	10	9	19	32	23	55	34.5
18 "	2	3	5	26	11	37	13.5
19 "	8	6	14	29	13	42	33.3
20 "	5	1	6	31	13	44	13.6
Adults.....	75	64	139	995	862	1,857	7.4
Totals.....	661	553	1,214	2,417	1,472	3,889	31.2

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The following shows certain facts in the natural history of diphtheria :

	1889-90.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Total.
Number of families in which there was more than one child	233	102	77	105	102	188	433	326	1,566
Number of these in which there was more than one case	89	37	19	32	29	62	172	125	565
Number of children in all the above families	894	356	269	356	345	288	1,690	1,262	5,460
Number of these children who were attacked	422	164	112	150	144	180	793	578	2,543
Number of additional families with children in the same house	97	41	62	64	68	94	333	254	1,003
Number of children in these families	262	89	171	185	176	233	898	665	2,679
Number of these additional families attacked	18	3	1	1	5	14	30	9	81
Number of children in these families who were attacked	25	7	1	1	5	14	55	26	134
Number of tenements which were disinfected where there were other families with children in the house	23	14	9	16	26	43	192	188	511
Number of instances of the above where the disease spread to other families in the house	5	0	1	0	1	8	11	9	35
Number of well children who were at once removed	54	26	31	42	27	76	141	176	573
Number of those who were attacked on their return	2	0	3	1	0	1	0	3	10

Of the three cases that went away from home when the disease appeared in the house and were attacked on their return, one was attacked two days, one eight days, and one twelve days after return. The house had been disinfected in each case, but in one of the cases no culture was taken from the child when he went away, so I do not know whether he had the germs present at that time or not. In the other two cases no cultures were taken from one of the adults in the family, and it is presumed that she had diphtheria bacilli in her throat as the disease developed in a family to which she went.

There were during the year fifty-four children in families of persons who were removed to the hospital with diphtheria.

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In one instance on the return of the patient from the hospital another child was taken sick. The child went to the hospital November 19th and returned December 15th, after thorough disinfection of person and clothing, and after two successive negative cultures from the throat. The second case was taken sick December 20th. The child at the time of its discharge from the hospital had some secretion from the nose, and it is possible that the contagion was in that, but nasal cultures taken after the second case developed failed to show any bacilli present.

There were three epidemics of diphtheria in schools which are worthy of notice. In January there were six cases in the Carpenter Street School, and it was found that a girl with mild diphtheria had been attending during the first few days of the year.

At Warren Street School there was diphtheria among the children from February 10th to March 30th. During this period there were eighteen cases among children who went to that school. There were also in that same district half a dozen other cases among those who would be likely to come in contact with school children. The cause of all the trouble was not found, but there could be little doubt that there were one or more children attending that school who had diphtheria bacilli in their throats. Later in April there were several cases apparently due to infection at school.

At the Union Avenue School were several cases of diphtheria which were traced to a child belonging to a family where there was an unrecognized case of diphtheria.

It is assumed by many of the laity, and I am sorry to say by some of the medical profession as well, that a person cannot give diphtheria to another unless the person giving it is actually sick. Ever since the publication of Dr. Jacobi's work many years ago it must have been clear to every thinking physician that such a position was untenable. A person may be infected with the diphtheria poison without showing any symptoms of the disease, and be perfectly capable of giving it to others. Several instances of the probable trans-

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mission of the disease in this way have occurred during the year, and it may be of interest to record them.

At 7 N—— Street, the mother stayed a few days at 160 C—— Avenue, where there was diphtheria. Shortly after her return her son had diphtheria, bacilli being found in his throat. The mother's throat was not examined at that time, but twelve days later bacilli were found in her throat also.

Mary K—— went to the hospital February 26th with enlarged or inflamed tonsils which she had had for a number of days. Her sister was taken sick with diphtheria, and both girls had bacilli present March 1st. Mary had not been confined at all, but had been about the neighborhood, and a number of other cases developed.

At 87 B—— Street there was diphtheria with positive culture January 15th. The children there had played with children at 691 P—— Avenue. These latter had had mild sore throat, which had received no attention, and on January 18th one of them was found to have diphtheria bacilli present.

At 33 R—— Street there was a child with diphtheria, showing on February 3d a positive culture. Another child in the family had mild sore throat which showed bacilli present February 20th. This child meanwhile had been to 34 E—— Street, and had played with children there, one of whom was taken sick March 2d, and subsequently showed a positive culture.

In November a young man on S—— Street was taken sick with diphtheria, recovered, and went to his home in the country in ten days without the knowledge of this department. Later three other members of the family where he went had diphtheria. No cultures were taken in any of these cases.

F. H. 52 C—— Street, sick about April first with sore throat. No culture taken. April 15th, G. B., same family, sick. Subsequent cultures showed bacilli in the throats of both.

F. W. sick about January 1st, but had no doctor and no

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culture was taken. Her brother was sick January 6th, and a positive culture was obtained from him and also from F. W. Meanwhile F. W. had been to school, and several cases developed among the children in that school.

About October 16th K—— and L——, at 32 P—— Street, had mild sore throats. They were cousins of children in another street who had diphtheria, but denied playing with them. K—— and L—— played with children at 52 P—— Street, who had diphtheria shortly after, showing positive cultures. No cultures were obtained from K—— and L——.

At 138 O—— Street there was a case of diphtheria in December. This child had received visits from the children in a family out of town in which there had recently been diphtheria. The throats of the visitors had not been examined.

There were a number of cases where diphtheria bacilli were found in the throats of well persons in whom diphtheria afterwards developed. Among these cases may be mentioned the following:

A child in a family where there was a death from diphtheria had bacilli present April 27th, was taken sick April 29th.

A. K., nine years old, bacilli present May 24th in A. M. Taken sick the next night.

Hugo T., eight years old, had bacilli in throat May 11th, taken sick May 22d. William T. had bacilli May 18th, and was taken sick May 29th.

Mrs. E——, bacilli May 22d, taken sick May 23d.

Mrs. P. came from a neighboring town where there had been diphtheria in the family, and had diphtheria bacilli in her throat November 12th. A few days later she was slightly sick with symptoms of the disease.

During the past year it has been the rule of this department to require cultures from the throats of all persons living in a family where there is a case of diphtheria. When the card is first put up if there are any members of the family who wish to continue at work a negative culture is required from them before they are allowed to do so. After all per-

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sons sick have recovered negative cultures are required from them and from the mother or nurse and all children in the family, or all who have been in close contact with the sick. This is the rule, but unfortunately it has not always been possible to enforce it. It seems to me necessary in the light of what we know about the danger of transmitting the disease by well persons who have Klebs-Loeffler bacilli in their throats, to keep all such persons isolated. It is not, however, surprising that there should be great opposition to this on the part of the laity, but it is surprising that the objection of educated physicians should have to be met. It is undoubtedly a great hardship to keep people who are well confined in the house, but unless isolation in diphtheria is to be a farce it seems necessary to do so.

The following table shows the number of persons exposed to diphtheria who had Klebs-Loeffler bacilli in their throats but who were not sick, and also the number exposed in the same families and who did not have bacilli in their throats and who were not sick. This table may profitably be compared with the one on p. 17, which shows the number of exposed persons who were sick :

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WELL PERSONS IN FAMILIES WHERE THERE WAS DIPHTHERIA WHOSE THROATS WERE EXAMINED FOR DIPHTHERIA, 1897.

	Persons Examined.	No. in which Bacilli Were Found.	Percentage.
Under 1 year	36	6	16.6
1 "	34	5	14.7
2 years	32	11	34.3
3 "	28	9	32.1
4 "	34	10	29.4
5 "	29	4	13.7
6 "	43	15	34.8
7 "	36	8	22.2
8 "	41	8	19.5
9 "	34	5	14.7
10 "	37	9	24.3
11 "	20	2	10.0
12 "	29	7	24.1
13 "	34	5	14.6
14 "	21	3	14.2
15 "	23	2	8.6
16 "	12	1	8.3
17 "	16	3	18.7
18 "	13	1	7.6
19 "	9	2	2.2
20 "	10	0	.0
Adults	653	74	11.3
Totals	1,224	190	15.5

From a consideration of the above it will be seen that while the proportion is not very great, yet in the aggregate there are a considerable number of persons who may have

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bacilli in their throats without presenting any symptoms of the disease. Such persons are liable to give the disease to others. But the hardship of keeping such persons isolated is not so great as at first appears. Of the 190 persons quarantined for the reason that bacilli were in their throats, 126 were children, and it is nowhere the policy to allow children in diphtheria families to mingle with the public whether their throats are examined or not. Of the 74 adults 60 were women, in most cases mothers or nurses who on no account would be permitted abroad. There were only 14 adult men and a few children in their teens who were kept from work by this rule that no person with diphtheria bacilli in the throat would be allowed to leave the house.

Complaint has also been made that placards are kept up longer than necessary because of the requirement of negative cultures from the well. As a matter of fact during the year cards were kept up on 25 houses for this reason. The additional days during which the card was kept on account of this rule was 30, 22, 20, 17, 15, 15, 12, 12, 11, 9, 8, 8, 7, 7, 6, 6, 6, 6, 5, 5, 5, 4, 4, 3, 2.

It would be interesting to know how long the bacilli remain in the throats of persons who are well, but this can only be done by examining daily all persons in a family where there is diphtheria, which is manifestly impossible. Certain facts bearing upon this matter were noted in connection with the cases examined in this city. Of the 190 well persons in whom diphtheria bacilli were found, 2 escaped with only one culture; 65 cases gave more than one positive culture, and the average time between the first and last positive culture was 10 days. In five cases the bacilli persisted 20 days or more, viz., 27, 26, 23, 22 and 20 days respectively. In 123 cases only one positive culture was obtained, and the average time between this positive and the negative culture was 16 days.

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TYPHOID FEVER.

The following table shows the number of cases and deaths for each month during the last thirteen years, and the number and ratio of cases and deaths each year during the last fourteen years:

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TYPHOID FEVER.

Year.	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total Cases.	Total Deaths.	Ratio of Deaths to Cases.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.			
1884.....	.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		.....		122	52	42.62
1885.....	6	3	7	4	8	2	7	2	5	4	5	3	2	2	6	4	15	6	8	5	11	8	4	1	84	44	52.38
1886.....	6	3	5	..	2	5	5	5	5	3	3	..	4	1	12	6	24	8	16	11	13	5	9	6	104	53	50.96
1887.....	5	6	1	3	4	3	..	..	3	2	..	2	3	1	..	8	10	3	9	7	18	2	10	2	63	39	59.09
1888.....	9	5	2	..	4	3	3	3	2	6	2	1	6	1	13	5	20	8	23	9	177	15	142	47	403	103	25.55
1889.....	35	5	14	8	6	2	7	9	6	1	1	2	..	1	13	6	29	4	34	3	31	12	21	6	197	59	29.79
1890.....	12	4	5	3	11	6	7	5	4	2	1	2	4	1	7	3	13	3	18	2	9	3	9	5	100	39	39.00
1891.....	6	4	3	2	5	5	5	1	6	2	5	3	9	3	17	6	17	6	29	5	74	16	14	9	190	62	32.63
1892.....	..	8	4	5	13	2	14	3	5	5	6	2	10	4	23	2	20	3	19	6	18	7	12	4	144	51	35.42
1893.....	23	3	6	1	7	2	11	1	11	3	6	3	26	11	28	5	12	3	18	6	24	6	25	6	197	50	25.38
1894.....	50	14	29	7	30	5	13	7	8	6	11	4	12	7	30	3	25	4	21	5	20	6	9	2	258	70	27.13
1895.....	10	..	16	3	6	1	13	1	7	4	11	3	3	1	16	3	14	4	17	8	50	6	64	12	227	46	20.26
1896.....	18	4	8	1	6	4	5	1	7	1	11	3	15	6	24	6	24	4	13	5	23	1	8	4	162	40	24.69
1897.....	10	2	5	2	4	..	6	2	6	..	3	..	2	..	9	..	22	2	18	3	16	6	6	7	107	24	22.42
Totals....	190	61	105	39	106	40	96	40	75	39	65	28	96	39	198	57	245	58	243	75	484	93	333	111	2236	680	30.41

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There were less deaths last year from typhoid fever in proportion to the population than in any year since registration was begun. Except when there has been a temporary epidemic wave due to special pollution of the public water supply, or to the use of contaminated milk, there has of late years been a decided falling off in the amount of typhoid fever. Whether or not the greater cleanliness of the city and the removal of privy vaults has anything to do with this, I am not at present prepared to say.

It happens occasionally that owing to carelessness typhoid fever spreads from one member of a family to others. In 1897 there were two cases each in three families, and five cases each in two families.

CONTAGIOUS DISEASE HOSPITAL.

The contagious, or "city ward" of the Rhode Island Hospital, was built by the city on the grounds of the Rhode Island Hospital at a cost of $21,906.81, and was opened January 13, 1896. The ward is maintained by the Rhode Island Hospital, and the city pays $15 per week for every patient sent to the hospital by this department. During the year there were removed to the hospital under my direction seventy-nine cases, and the total expense to the city for caring for them was $4,924.35.

The Rhode Island Hospital first began to receive patients with scarlet fever and diphtheria in 1891, and the following shows the number of cases admitted during that time, and also the number of deaths that occurred in the hospital:

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Year.	Scarlet Fever.		Diphtheria.		Total Cases.	Expense.
	Cases.	Deaths.	Cases.	Deaths.		
1891	6	0	4	1	10	$486 43
1892	13	2	4	1	17	1,553 36
1893	20	1	5	1	25	1,267 77
1894	27	2	4	2	31	2,297 07
1895	37	0	27	3	64	3,614 78
1896	35	2	103	10	138	4 670 64
1897	22	2	57	6	79	4,924 35
Totals	160	9	204	24	364	$18,823 40

During the year just passed the mortality of the scarlet fever cases was 9 per cent., and of the diphtheria 10 per cent. In the latter disease this was less than the average mortality throughout the city.

DISINFECTION.

Disinfection after contagious disease in the city is not compulsory, and is only done at the request of the family. It is done by this department without charge. The following are the number of disinfections since 1888:

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Year.	Scarlet Fever.	Diphtheria.	Phthisis.	Miscellaneous.	Total.
1888	.....	.....	.....	.....	180
1889	.....	.....	.....	.....	92
1890	.....	.....	.....	.....	93
1891	.....	.....	.....	.....	132
1892	101	28	.....	11	140
1893	158	8	4	3	173
1894	331	56	1	12	400
1895	555	188	1	11	755
1896	338	558	16	27	939
1897	264	478	10	27	779
Total	1,747	1,316	32	91	3,186

During the year disinfection has been done partly by taking to the city yard and there steaming such goods as could be so treated. Considerable use has also been made of formaldehyde. This has been generated by means of Kinyoun's apparatus and by the Sanitary Construction Co.'s "regenerator," also in a few cases by the use of pastiles. A good many tests have been made by exposing glass rods smeared with diphtheria cultures, but the sterilization of these has not been entirely satisfactory. I am still uncertain about the practical value of any of the methods so far devised. It is always recommended that the furniture, woodwork, floors, etc., be washed with corrosive sublimate, and that upholstered furniture be dampened with formalin either by a spray or a wet cloth. Corrosive sublimate in small boxes is left with nearly every family, and very often formalin. I am not satisfied with what is done, but have not as yet been able to suggest anything which would be satisfactory. I fear that the greatest danger is from the patient and the patient's clothes, and these are less liable to be disinfected than anything else.

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VACCINATION.

During the year 1897 the number of persons vaccinated was 2,218. The only public vaccination has been at the Fourth Ward Room on Fountain street Saturday afternoons. Humanized virus chiefly is employed. The number of transfers of humanized virus in 1897 was 24, making the total number of transfers since 1868, when an accurate record was begun, 587. The number of certificates of vaccination issued was 2,900. The following table gives the number of persons vaccinated and the number of certificates issued from 1856 to 1880, and during each year since that time:

Year.	Persons Vaccinated.	Certificates Issued.
1856-1880	24,142	32,585
1881	2,307	1,655
1882	1,694	1,690
1883	1,385	1,601
1884	1,137	2,725
1885	17,034	1,776
1886	625	1,856
1887	917	1,437
1888	894	1,676
1889	1,136	1,344
1890	1,438	1,765
1891	1,738	2,112
1892	2,440	2,407
1893	1,905	2,359
1894	3,086	2,809
1895	1,511	2,050
1896	1,963	2,536
1897	2,218	2,900
Total, 1856-1897	67,570	67,283

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QUARANTINE.

The signal officer at quarantine for the year was John S. Adamson, who performed the services in a very satisfactory manner.

The following is the number of vessels hailed by the signal officer:

1893 (from May 18)	98
1894	82
1895	82
1896	106
1897	90

The following is a list of the vessels boarded by the health officer, and the ports from which they sailed:

	1893.	1894.	1895.	18. 6.	1897.
British Provinces	14	2	0	0	1
West Indies	11	14	18	10	9
Italy	1	2	2	2	0
Brunswick, Ga	3	0	0	0	0
South America	1	0	0	0	0
Turkey	0	0	0	0	1
Total	30	18	20	12	11

NUISANCES.

During the year 626 complaints of nuisances were made at this office. Of these 476 were well founded, while 150 were not. In addition to these complaints, 75 were received through the police, making 701 complaints received from the public during the year. A large number of these, however, had already received attention when the formal report reached this office. The nuisances abated during the year were as follows:

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Privy vaults full and offensive	167
Cesspools full and offensive	19
Uncovered vaults and cesspools	11
Cesspools and vaults overflowing	33
Cesspools and vaults leaking into cellar	25
Defective waste and drain pipes	29
No traps	12
Filthy yards	224
Filthy water flowing into the street	5
Defective water closets	31
Filthy cellars	14
Filthy tenements	3
Stable manure removed	39
Filthy dump	4
Miscellaneous	32

When a nuisance exists on any premises in the city, a letter is at once sent to the owner to abate it, and if he does not do it within a reasonable time the case is reported to the board of aldermen for action. In 1897 the board of aldermen issued 212 orders under form A, to abate nuisances, and 12 under form C, to vacate tenements, and 1,057 under form E, ordering persons to connect drainage with the sewer. When the board is not in session I have authority, under Chapter 91 of the General Laws, to issue orders to abate certain nuisances, and during the year two were issued from this office.

PRIVY VAULTS.

In September, 1892, an attempt was made to secure the removal of all privy vaults along the line of sewered streets. A large number were removed during the following year in accordance with the orders of the Board of Aldermen. Since that time this work has received my constant attention, and a considerable number of vaults have been destroyed each year. In 1895 a privy vault belonging to Ruth M. Harrington at 346 Point street was ordered filled up and the order was not obeyed. Under the law your board has authority to destroy any such vaults, and it was done in this

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case. The order of the Board of Aldermen was appealed from and a jury trial demanded and a verdict secured against the owners of the vault. An appeal was taken on constitutional points and the case was widely advertised. It was generally believed by property owners that the city would lose, and hence they persistently refused to obey the orders of your board and for awhile little progress was made. But in August last a decision was given by the Supreme Court, affirming the authority of the city to destroy all vaults and cesspools on the line of sewered streets. As a consequence, during the fall a large number of vaults were removed, and it is intended to press this work vigorously in the spring.

INSPECTOR OF PROVISIONS.

The following is a summary of the work of the inspector of provisions for the last four years :

Number of Markets in the City.

Wards.	1893.	1894.	1895.	1896.	1897.
I	48	45	60	55	57
II	42	45	50	64	70
III	28	26	35	35	54
IV	34	29	33	23	39
V	28	31	34	34	35
VI	37	35	33	48	63
VII	20	19	25	36	37
VIII	41	39	45	46	51
IX	27	28	43	49	65
X	39	37	42	51	56
Total	344	334	400	441	525

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	Total number of inspections.	No. of times provisions were condemned.
1893	2,787	
1894	4,101	25
1895	4,393	50
1896	5,229	193
1897	6,282	525

SWILL.

During the year the swill has been collected by Messrs. A. H. and J. Barney, under contract with the city dated May 1, 1894. The payment for the service is 15½ cents per annum for each person in the city, the population of the city to be estimated for that purpose each year by the City Registrar. At this rate they were paid $1,950.42 each month during the year ending May 1, 1897, and $2,002.08 per month since that time.

During the year 327 complaints were received from householders in regard to the removal of their swill. Most of these were due to failure to report their return home after absence, or to the putting of ashes or other improper matters in the swill.

A small amount of garbage is collected by farmers who receive a special license for this. There are also a considerable number of farmers who purchase swill from the contractors and draw it out into the country to feed to swine. Each person is required to have a license for this, and to carry the swill in a tight box closely covered. In all eighty of these licenses were issued during 1897.

NIGHT SOIL.

In accordance with the statute and rules of 1892 licenses are issued to engage in the business of removing the contents

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of privy vaults and cesspools. These licenses are for the current municipal year, and the fee for a license is $1.00. The number issued in 1892 was 32, in 1893 it was 28, in 1894 it was 22, in 1895 it was 23, in 1896 it was 26, and in 1897 it was 29.

DEGRAS WORKS.

On November 15, 1894, a petition was presented to your board in regard to an alleged nuisance caused by the degras works on Valley Street. This petition was referred to the committee on the health department, who visited the works, but were not fully satisfied in regard to the nuisance. While the committee were considering the matter the works were destroyed by fire. They were, however, soon rebuilt, and on July 9, 1895, another petition was presented, which was also referred to the committee. These works were operated for the purpose of extracting the oily matter from the waste water from the wool scouring machinery in the mills near by. The waste water from the mills was led to the degras works through a pipe laid in the bed of the river, and was received into large vats where it was treated with sulphuric acid to liberate the oily material. After standing awhile the liquid portion was drained off into the sewer, and the remainder was run into filter beds where it was allowed to drain for a number of hours. The pasty material remaining on the filters was then put in bagging and pressed in steam presses to extract the degras. The offensive odors came to some extent from the material during all parts of the process. But there were three parts of the work which were especially offensive. These were when the acid was added to the liquid, when the presses were opened and the hot vapors escaped, and also when the solid residue was removed from the bagging and exposed in the yard. The committee visited the works several times and gave the matter much attention. They also gave two extended hearings on July 16, and September 29, 1896. The committee became satisfied as to the existence of the nuisance, and asked the city engineer to

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advise how it might be abated. He made the following recommendations, which were transmitted to the owners and operators of the degras works, who were told that they would not be allowed to continue their business unless these changes were made and the nuisance abated:

RECOMMENDATIONS OF CITY ENGINEER.

Enclose in a tight annex building all the refuse of the works, including the fertilizer and the bags.

Fasten all the windows of both buildings so that they cannot be opened.

Allow the doors to be opened only when in use for passing through.

Such apertures as are needed for ventilation may be made near the ground, but protected by flap checkvalves which will open by the pressure of the incoming air, but close when the air ceases to come in.

All needed ventilation to be secured by running a power fan discharging its air through a fire or into a large combustion chamber, built like a reverberatory furnace and kept hot, from which the only escape for gasses is through a tall chimney.

The heat of the combustion chamber may make all the steam required for the works.

These recommendations were only partially carried out and the nuisance was not abated. Complaints continue to come in, and the committee on the health department reported to the Board of Aldermen that the nuisance should be abated by their order. A public hearing was given, and on Sept. 2, 1897, the following order was passed:

WHEREAS, After due notice to all parties of interest, and a full public hearing, it appears to this Board of Aldermen sitting as a Board of Health, that the business and trade of treating wool-wastes as now carried on by the occupants of the American De Gras and Chemical Company's works in this city is a noxious and offensive trade; and whereas, in the judgment of said board, the public health, comfort and convenience require that the exercise of said business and trade should be prohibited indefinitely by order and decree of this board, now, therefore, it is hereby ordered and decreed that the exercise of said business and trade at said works be and the same is hereby prohibited indefinitely.

The works were then promptly closed by the operators, who took an appeal as provided for by Chapter 93 of the General Laws, under which the order was issued.

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DUMPS.

A good deal of complaint has been made in regard to the nuisance caused by the dumping of papers and similar combustible material on public dumps. The papers blow about the neighborhood and also entice the boys to start bon-fires, the smoke from which is often very offensive. The matter was brought to the attention of the City Council, and on March 2, 1897, the following ordinance was adopted:

SECTION 1. No person shall dump or deposit, or after sixty days from the passage of this ordinance, set fire to any waste paper or other inflammable material, except upon land owned or rented by such person, or upon such places as may be from time to time designated by the Superintendent of Health. No person shall carry or convey through the streets any waste paper not so covered or protected as to prevent the escape of said paper into the streets.

SEC. 2. Any person violating any of the provisions of this ordinance shall be fined not less than two dollars and not more than twenty dollars, or shall be imprisoned not less than one nor more than twenty days.

BABY FARMS.

At the January session of the General Assembly an act (464 of the Public Laws) was passed providing for the licensing of baby farms. The following is section 2 of that act:

SEC. 2. The board of state charities and corrections may grant licenses, to receive board and keep infants, and may revoke such license in its discretion. No such license shall be granted until the application therefor shall be approved in writing by the board of health of the city or town in which such licensee proposes to receive, board and keep such infants. The board of state charities and corrections, the Rhode Island Society for the Prevention of Cruelty to Children, and boards of health of cities and towns, shall

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annually, and may at all times, visit and inspect premises so licensed, and may at any time designate any person to visit and inspect said premises.

Under this law I have examined 8 premises which were to be used for this purpose and have approved the applications therefor and the licenses were granted. Of these, 6 applications were for 1 child, 1 for 2 children, and 1 for 4 children.

EXPENSES OF THE HEALTH DEPARTMENT.

The following were the expenses of the Health Department for the year ending Sept. 30, 1897:

Salary of Superintendent of Health	$2,000 00
Removal of swill	23,663 34
Board and treatment of persons afflicted with contagious disease.	6,688 47
Clerks and inspectors	3,639 50
Printing, advertising, stationery and supplies	2,010 05
Registration expenses	3,102 25
Horse, wagon and ambulance expenses	1,125 87
Serving notices	1,071 70
Disinfecting expenses	987 49
Men at dumping grounds	478 50
Vaccination expenses	318 00
Rent of telephones	179 25
Horse	175 00
Fees of Quarantine Sentinel	170 00
Car fares	110 00
Cleaning out vaults, etc	96 26
Fuel	31 50
Carriage hire	5 25
Repairs at small-pox hospital	4 03
Total	$45,856 46

The following is an estimate of the expenses of the Health Department for the year ending Sept. 30, 1899, as made by the Superintendent of Health:

Salary of Superintendent of Health	$2,000 00
Removal of swill	25,000 00
Care contagious disease	7,000 00
Inspector of Provisions	1,200 00
Nuisances	625 00
Medical Inspector	1,500 00

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Disinfector	$625 00
Clerk	500 00
Printing, advertising, supplies, etc	2,000 00
Registration expenses	3,500 00
Horses, ambulance, etc	1,200 00
Serving notices	800 00
Disinfection expenses	500 00
Man at dump	500 00
Vaccination	500 00
Telephones	180 00
Quarantine Sentinel	200 00
Car fare	150 00
Ambulance	500 00
Bacteriologist	750 00
Medical inspection of schools	3,500 00
Miscellaneous	270 00
	$53,000 00

Respectfully submitted,

CHARLES V. CHAPIN,

Superintendent of Health.

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Summary of Deaths in Providence from Certain Important Diseases for Forty-two Years.

Year.	Population.	Whole number of Deaths.	Deaths per Thousand.	Deaths under 1 Year.	Percentage of Whole No. of Deaths.	Deaths under 5 Years.	Percentage of Whole No. of Deaths.	Deaths from Phthisis.	Percentage of Whole No. of Deaths.	Deaths from Typhoid Fever.	Percentage of Whole No. of Deaths.	Deaths from Scarlet Fever.	Percentage of Whole No. of Deaths.	Deaths from Diphtheria.	Percentage of Whole No. of Deaths.	Deaths from Small-pox.	Percentage of Whole No. of Deaths.	Deaths from Diarrhœal Diseases.	Percentage of Whole No. of Deaths.	Year.
1856 to 1869	755,933	14,940	19.76	2,852	19.08	5,766	38.59	2,719	18.19	494	3.30	835	5.58	219	1.46	46	.30	1,801	12.05	1856 to 1869
1870	68,904	1,268	18.33	277	21.93	464	36.74	238	19.06	52	4.16	35	2.80	10	0.80	2	0.16	149	11.92	1870
1871	72,011	1,254	17.41	245	19.54	404	32.22	194	15.66	53	4.28	21	1.69	21	1.69	3	0.24	126	10.15	1871
1872	76,118	1,603	21.34	357	22.29	566	35.27	241	15.26	68	4.31	19	1.20	27	1.71	13	0.82	262	16.58	1872
1873	78,225	1,719	21.97	344	20.01	631	36.71	231	13.57	61	3.58	132	7.76	23	1.35	14	0.82	165	9.69	1873
1874	96,452	1,987	20.60	402	20.23	781	39.31	270	13.76	60	3.06	268	13.66	20	1.02	0	0	229	11.67	1874
1875	100,675	1,915	19.02	409	21.36	703	36.66	299	15.79	71	3.75	93	4.91	14	0.74	1	0.05	223	11.71	1875
1876	101,511	1,865	18.37	388	20.80	727	38.98	284	15.34	33	1.78	35	1.87	111	5.95	0	0	206	11.13	1876
1877	101,000	1,938	19.18	365	18.83	724	37.36	294	15.22	43	2.22	12	0.62	295	15.27	0	0	204	10.56	1877
1878	102,286	1,969	19 44	373	18.76	796	40.02	305	15.46	47	2.38	57	2.86	246	12.47	0	0	130	6.59	1878
1879	103,572	2,026	19.56	316	15.60	714	35.25	293	14.52	40	1.98	252	12.49	107	5.30	0	0	120	5.95	1879
1880	104,857	2,060	19.83	381	18.32	731	35.15	322	15.60	52	2.57	243	11.77	61	2.95	0	0	165	7.98	1880
1881	109,617	2,145	19.56	415	19.35	727	33.90	344	16.15	38	1.78	45	2.11	116	5.54	0	0	182	8.55	1881
1882	114,377	2,242	19.60	416	18.56	678	30.24	351	15.72	140	6.27	18	0.81	48	2.15	0	0	256	11.45	1882
1883	117,018	2,328	19.89	418	17.96	666	28.61	364	15.68	128	5.51	16	0.69	54	2.33	1	0.04	212	9.13	1883
1884	117,544	2,233	19.00	469	21 00	773	34.61	344	14.44	52	2.33	57	2.56	58	2.60	0	0	253	11.33	1884
1885	118,070	2,164	18.32	376	17.38	628	29.02	347	16.03	44	2.03	38	1.76	37	1.71	0	0	161	7.44	1885
1886	120,000	2,355	19.62	439	18.24	743	31.54	368	15.64	53	2.25	30	1.27	98	4.16	0	0	231	9.80	1886
1887	121,500	2,612	21.50	452	17.30	896	34.28	314	12.02	39	1.49	153	5.85	109	4.17	0	0	212	6.47	1887
1888	123,000	2,608	21.20	436	16.71	770	29.52	359	13.76	103	3.94	80	3.06	98	3.75	0	0	271	10.39	1888
1889	127,000	2,510	19.76	499	19.88	803	31.99	309	12.31	59	2.31	25	.99	97	3.86	0	0	232	9.24	1889
1890	132,146	2,877	21.77	636	22.10	966	33.57	385	13.38	39	1.35	8	.27	94	3.26	0	0	312	10.84	1890
1891	135,000	2,630	19.48	576	21.90	828	31.48	344	13.08	62	2.36	17	.64	48	1.82	0	0	231	8.78	1891
1892	138,000	2,964	21.48	639	21.56	900	30.36	333	11.23	51	1.72	37	1.25	39	1.32	3	0.10	344	11.61	1892
1893	150,000	3,139	20.92	686	21.85	1,039	33.09	325	10.35	50	1.59	97	3.09	46	1.46	0	0	309	9.48	1893
1894	153,000	2,896	18.92	648	22.37	934	32.25	331	11.42	70	2.41	56	1.93	46	1.58	2	.06	278	9.59	1894
1895	145,472	3,067	21.22	656	21.25	1,012	32.78	355	11.49	46	1.49	64	2.07	79	2.55	0	0	296	9.58	1895
1896	150,000	2,955	19.70	658	22.26	1,005	34.01	350	11.84	40	1.35	33	1.12	125	4.23	0	0	294	9.95	1896
1897	154,000	2,805	18.21	637	22.70	894	31.87	321	11.44	24	.85	11	.39	78	2.78	0	0	265	9.44	1897
Totals and Averages.	94,344	79,129	19.06	15,766	19.92	27,270	34.46	11,534	14.57	2,112	2.66	2,787	3.52	2,424	3.06	85	.10	8,119	10.26	Totals and Averages.

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Population.

Census, June 1, 1890	132,146
" Jan. 1, 1893	148,944
" June 1, 1895	145,472
Estimated, June 30, 1897	154,000

Assessed Valuation.

	1896.	1897.
Real estate	$133,296,200 00	$135,805,460 00
Personal estate	40,936,300 00	38,237,020 00
Total	$174,232,500 00	$174,042,480 00
Total amount of all tax	$2,874,836 25	$2,871,700 92

Streets.

	1896.	1897.
Paved	32. miles.	35.99 miles.
Curbed and built, but not paved	143. "	141.54 "
Received, but not built	32.546 "	31.97 "
Total	207.646 "	209.50 "

Water and Sewers.

Miles of water pipes	302,874	310,022*
Number of service pipes in use	19,404	19,993
Number of meters in use	14,845	15,679
Average daily consumption of water	9,106,623 gals.	8,635,081 gals.
Miles of sewers	156.383 miles.	165.289 miles.
Number of sewer connections	12,295	13,203

* Besides 5,569 for fire purposes.

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FORTY-THIRD ANNUAL REPORT

UPON THE

Births, Marriages, and Deaths

IN THE

CITY OF PROVIDENCE

FOR THE YEAR

1897

By CHARLES V. CHAPIN, M. D.

CITY REGISTRAR.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

City Registrar's Office,
Feb. 3, 1898.

To the Honorable the City Council:

In accordance with a joint resolution approved Feb. 1, 1898, the annual report of the City Registrar is to be presented in print. The purpose of this is to secure an earlier issue than could otherwise be secured. Hitherto the report on births, marriages, and deaths has not been received from the printer until late in the summer. The delay is due chiefly to the fact that the returns of births cannot be completed till towards the latter part of February and sometimes even later. If under such conditions the report is not sent to the printer until the births have all been recorded and tabulated, the work is very much delayed and needlessly so. Until the present year the order followed in printing has been births, marriages, and deaths, but by adopting the order deaths, marriages, and births, and presenting the report in print, it can be issued two or three months earlier than has in the past been possible.

DEATHS.

The number of deaths reported in Providence for the year 1897 was 2,805, which was 150 less than in 1896.

The population of Providence for 1897 was estimated at 154,000, and the following table shows the mortality in the different classes of this population; each class being considered to bear the same proportion to the whole population as in the census of 1895:

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	Population, 1897.	Deaths, 1897.	To population one death in	Deaths in each 1,000 of population.
Total population	154,000	2,805	54.90	18.21
Males	74,143	1,427	51.96	19.25
Females	79,857	1,378	57.95	17.26
Whites	149,621	2,684	55.75	17.94
Colored	4,379	121*	36.19	27.63
Born in United States	105,072	1,990	52.80	18.94
Born in foreign countries	48,928	815	60.03	16.66
American parentage	60,905	1,116	54.57	18.32
Foreign parentage	93,095	1,689	55.12	18.14

* Including one Chinese.

The rate of mortality in 1897 was 1.49 less than in the preceding year. During the forty-three years from 1855 to 1897, inclusive, there were 80,120 deaths in Providence, giving an average annual death-rate of one to each 50.36 of the population, or 19.86 deaths in each 1,000 living. The death-rate in 1897 was, therefore, 1.65 less than the average for the whole period of forty-three years.

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Table XII. Deaths, 1897.

Sex, Condition, Color, Nativity, Parentage, Locality, and Season.

1897.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Whole number of Deaths..	254	294	209	229	215	209	250	267	226	224	202	226	2,805
Sex.—													
Males	123	149	85	117	114	102	135	119	125	119	112	127	1,427
Females	131	145	124	112	101	107	115	148	101	105	90	99	1,378
Condition —													
Married	86	89	66	74	62	65	58	66	72	75	68	83	864
Single	121	139	107	98	111	111	161	160	125	112	96	101	1,442
Widows	30	50	28	32	29	20	18	31	13	24	26	26	327
Widowers	12	14	6	22	12	9	12	7	11	8	8	16	137
Divorced	5	....	2	2	1	4	....	1	5	4	2	...	26
Unknown	...	2	....	1	....	....	1	2	...	1	2	....	9
Color.—													
White	242	283	203	217	207	202	228	260	219	218	189	216	2,684
Colored	12	11	6	12	8	6	22	7	7	6	13	10	120
Chinese	...	..	....	...	...	1	....	....	....	....	....	....	1
Nativity.—													
United States	173	197	156	147	149	145	203	196	174	154	145	151	1,990
Ireland	43	61	31	43	38	30	23	43	23	34	38	45	452
England, Scotland, Wales	16	9	12	19	5	11	9	9	14	19	5	12	140
Germany	3	2	3	5	4	3	1	2	2	5	7	2	39
British America	6	8	3	3	4	5	1	5	1	1	4	4	45
French Canada	4	4	1	3	2	4	3	5	4	2	....	3	35
Portugal & Western Is'ds	1	1	1	....	2	1	1	1	2	2	1	....	13
Sweden	2	..	1	2	1	3	2	2	....	1	1	2	17
Norway	....	2	....	....	....	....	....	....	....	..	....	1	3
Russia and Poland	1	2	1	4	3	2	1	...	2	1	1	....	18
Italy	2	6	....	3	4	2	5	2	3	4	....	5	36
Other Countries	3	2	....	...	3	3	1	2	1	1	....	1	17
Parentage.—													
American	91	109	96	90	87	81	112	92	84	92	97	85	1,116
Irish	89	103	70	76	71	60	62	93	61	63	63	83	894
English, Scotch, Welsh..	24	27	17	27	11	21	27	23	30	29	14	22	272
German	10	5	3	7	8	7	5	6	6	6	7	2	72
British American	5	8	4	2	3	6	1	7	3	3	5	4	51
French Canadian	8	5	4	6	5	10	11	14	13	8	4	5	93
Portuguese	5	5	6	3	8	2	7	6	6	3	2	4	57
Swedish	6	3	2	5	3	4	6	6	4	2	1	3	45
Norwegian	....	2	....	....	....	....	1	1	....	....	....	1	5
Russian and Polish	4	10	1	5	4	4	2	2	5	4	1	3	45
Italian	7	15	6	6	12	8	11	8	11	12	5	12	113
Other foreign	5	2	....	2	3	6	5	9	3	2	3	2	42
Locality, Wards.—													
I	27	24	31	18	19	19	23	16	15	24	13	16	245
II	17	25	16	16	19	10	13	24	14	16	12	13	195
III	29	41	20	24	20	23	22	33	19	25	19	28	303
IV	9	14	8	8	7	9	9	8	7	5	4	8	96
V	17	19	13	18	20	13	15	13	10	13	24	11	186
VI	23	25	15	20	15	13	22	24	19	20	15	9	220
VII	15	20	18	24	16	17	24	17	16	16	21	19	223
VIII	18	24	19	18	16	14	20	24	14	18	13	20	218
IX	23	26	15	17	19	22	24	26	34	24	23	28	281
X	36	29	26	22	29	28	46	33	38	31	30	27	375
Public Institutions	40	47	28	44	35	41	32	49	40	32	28	47	463
Totals	254	294	209	229	215	209	250	267	226	224	202	226	2,805

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Season. The largest monthly total of deaths in 1897 was 294, in February; the smallest, 202, in November.

The following figures show the number of deaths in each quarter of each of the last five years; also the aggregate and average number of deaths in each quarter of the year, in the total for forty-three years, from 1855 to 1897, inclusive:

	1897.	1896.	1895.	1894.	1893.	43 years, 1855–1897. Aggregate.	Average.
January-March	757	760	804	821	847	20,119	467
April-June	653	729	728	700	802	18,431	428
July-September	743	819	820	785	787	22,364	520
October-December	652	647	735	590	703	19,206	446
Totals	2,805	2,955	3,087	2,896	3,139	80,120	1,863

The following shows the number and percentage of deaths in Providence in each quarter of the year, in the aggregate for thirty-one years, from 1855 to 1885, inclusive; for periods of five years, 1886 to 1895, inclusive, and for each year since 1895:

	Jan.-March.		April-June.		July-Sept.		Oct.-Dec.	
	Deaths.	Per ct.	Deaths.	Per ct.	Deaths.	Per ct.	Deaths.	Per ct.
1855–1885	11,283	24.17	10,598	22.70	13,242	28.53	11,459	24.55
1886–1890	3,424	26.42	2,917	22.50	3,577	27.60	3,044	23.48
1891–1895	3,895	26.46	3,534	24.01	3,883	26.38	3,404	23.13
1896	760	25.72	729	24.67	819	27.72	647	21.89
1897	757	26.98	653	23.27	743	26.48	652	23.24

Sex and Parentage. The sex of the decedents, by parentage, in Providence, is shown in the following table, in periods of five years each, from 1861 to 1895, inclusive, and for each year since 1895:

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	American Parentage.			Foreign Parentage.		
	Males.	Females.	Total.	Males.	Females.	Total.
1861-1865	1,401	1,474	2,875	1,401	1,395	2,796
1866-1870	1,407	1,499	2,906	1,387	1,332	2,719
1871-1875	1,978	2,158	4,136	2,150	2,102	4,252
1876-1880	2,179	2,354	4,533	2,593	2,772	5,365
1881-1885	2,380	2,635	5,015	3,011	3,086	6,097
1886-1890	2,673	2,807	5,480	3,696	3,786	7,482
1891-1895	2,956	2,993	5,949	4,512	4,313	8,825
1896	588	521	1,109	986	860	1,846
1897	577	539	1,116	850	839	1,689
37 years	16,079	16,980	33,059	20,586	20,575	41,161

Civil Condition. The 3,087 decedents in 1897, and the 2,805 decedents in 1896 were divided as follows as to condition and parentage:

Civil Condition.	American Parentage.			Foreign Parentage.		
	1896.	1897.	Total.	1896.	1897.	Total.
Married	286	313	599	541	551	1,092
Single	605	558	1,163	1,017	884	1,901
Widows	135	151	286	183	176	359
Widowers	66	71	137	89	66	155
Divorced	14	20	34	5	6	11
Unknown	3	3	6	11	6	17
Totals	1,109	1,116	2,225	1,846	1,689	3,535

Of the 2,225 decedents of American parentage in the two years, 1,163 or 52.26 per cent., were single, and 1,062 or 50.96 per cent., were married or had been.

Of the 3,535 decedents of foreign parents, 1,901 or 53.77 per cent., were single; 1,634 or 46.22 per cent. were married or had been; of 9 the civil condition was not stated, 3 of American, 6 of foreign parentage.

Color. The white decedents of 1897 were 2,684 in number, 1,013 of American, 1,671 of foreign parentage. There were 120 colored decedents, which was 8 less than in 1896; 17 of these were of foreign parentage. There was 1 Chinese decedent.

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Nativity and Parentage. The nativity and parentage of the decedents are given in Table XII. The following figures show what difference there is between the two classes:

1897.	Nativity.	1897.	Parentage.
United States	1,990	American	1,116
Ireland	453	Irish	894
England and Scotland	140	English and Scotch	272
Germany	39	German	72
British America	45	British-American	51
" " (French)	35	French-Canadian	93
Portugal and Western Islands	13	Portuguese	57
Russia	18	Russian	45
Sweden	17	Swedish	45
Norway	3	Norwegian	5
Italy	36	Italian	113
Other countries	17	Other foreign	42
Totals	2,805		2,805

The 17 decedents born in other foreign countries than those named in the table were as follows: Born in Armenia, 4; France, 4; Roumania, 2; Denmark, 2; West Indies, 2; Atlantic Ocean, 1; Bermuda, 1; China, 1.

The 42 decedents of other foreign parentage were as follows: French, 11; Austrian, 7; Armenian, 4; Danish, 4; Belgian, 3; St. Helena, 3; West Indian, 3; Chinese, 2; Roumanian, 2; East Indian, 1; Spanish, 1; Syrian, 1.

Locality. The following figures show the number of decedents by parentage in each ward of the city in 1896 and 1897:

	American.		Foreign.			American.		Foreign.	
Wards.	1896.	1897.	1896.	1897.	Wards.	1896.	1897.	1896.	1897.
I	109	98	179	147	VII	125	129	90	94
II	101	106	94	89	VIII	131	121	116	97
III	72	79	261	224	IX	67	94	199	187
IV	71	53	48	43	X	79	82	291	293
V	105	80	131	106	Public Institutions	166	165	308	298
VI	83	109	129	111					
Totals						1,109	1,116	1,846	1,689

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The decedents in public institutions in each of the last five years have been as follows: It will be seen from the table that the term *Public Institutions*, for this purpose, includes not only hospitals and other public institutions, but also hotels, rivers, ponds, the streets, etc., where persons happen to die away from their usual residences:

	1897.	1896.	1895.	1894.	1893.
Rhode Island Hospital	187	199	169	166	129
Butler Hospital	17	15	21	15	14
Homœopathic Hospital	18	15	12	16	17
St. Joseph's Hospital	86	97	44	23	29
Dexter Asylum	22	14	16	11	13
Home for Aged Men	1	2	3	0	0
Home for Aged Women	5	3	4	6	5
Home for Aged Colored Women	2	2	1	1	4
Children's Home	0	1	3	0	0
St. Elizabeth Home	2	8	5	6	0
Shelter for Colored Children	0	0	1	0	0
Rhode Island Nursery	0	0	26	12	21
St. Aloysius Asylum	1	2	1	1	7
St. Vincent de Paul Asylum	40	26	20	15	29
R. C. Convent	3	2	2	3	3
Lying-in Hospital	38	25	16	34	17
Hotels	2	7	5	1	1
Private Hospitals	0	7	4	0	0
Police Station	1	1	2	0	2
Bays, Rivers, and Ponds	5	11	15	13	11
Railroad Tracks	7	0	0	0	0
Shops and Factories	6	0	0	0	0
Street	9	0	0	0	0
Others	15	37	48	31	21
Unknown	0	0	0	0	1

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Aggregate and Average Age, and Season. The following table (XIII.) shows the number of deaths and the aggregate and average age of the decedents in Providence, *according to parentage*, in each month and in the whole year, 1897:

TABLE XIII. DEATHS, 1897.

Aggregate and Average Age by Parentage.

MONTHS, 1897.	American Parentage.			Foreign Parentage.			Total American and Foreign.		
	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.
January	91	3,441	37.81	163	5,385	33.04	254	8,826	34.75
February	109	5,045	46.28	185	6,392	34.39	294	11,437	38.90
March	96	3,574	37.23	113	3,776	33.42	209	7,350	35.17
April	90	4,037	44.86	139	4,794	34.49	229	8,831	38.56
May	87	2,935	33.74	128	4,471	34.93	215	7,406	34.42
June	81	3,020	37.28	128	4,259	33.27	209	7,279	34.83
July	112	2,937	26.22	138	2,935	21.27	250	5,872	23.49
August	92	2,200	23.91	175	4,813	27.50	267	7,013	26.27
September	84	2,816	33.52	142	3,525	24.82	226	6,341	28.06
October	92	3,435	37.34	132	4,160	31.52	224	7,595	33.91
November	97	3,795	39.12	105	3,665	34.90	202	7,460	36.93
December	85	3,572	42.02	141	5,023	35.62	226	8,595	38.03
Year	1,116	40,807	36.56	1,689	53,198	31.50	2,805	94,005	33.51

The average age of the decedents of American parentage was 5.06 years greater than that of foreign parentage. The average age of all decedents in 1897 was 2.16 more than in 1896; of decedents of American parentage 1.67 greater, and of foreign parentage 2.12 greater.

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The following table, XIV., gives the aggregate and average age of the decedents, by months and by parentage, in the aggregate for the forty-two years from 1856 to 1897, inclusive:

TABLE XIV. DEATHS. FORTY-TWO YEARS, 1856–1897.

Aggregate and Average Age by Parentage.

FORTY-TWO YEARS, 1856–1897.	American Parentage.			Foreign Parentage.			Total American and Foreign.		
	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.
January....	3,313	124,152	37.47	3,779	115,053	30.45	7,092	239,205	33.73
February...	2,889	105,990	36.69	3,352	95,488	28.49	6,241	201,478	32.28
March.. ..	3,086	112,418	36.43	3,487	100,725	28.89	6,573	213,143	32.43
April..... .	3,000	108,161	36.05	3,517	103,653	29.47	6,517	211,814	32.50
May.....	2,886	106,721	36.98	3,334	101,236	30.36	6,220	207,957	33.43
June.....	2,468	88,088	35.69	3,018	84,321	27.94	5,486	172,409	31.43
July.....	3,235	83,108	25.69	4,466	95,998	21.50	7,701	179,106	23.26
August.....	3,352	95,150	28.39	4,429	99,667	22.50	7,781	194,817	25.04
September..	2,804	85,540	30.51	3,739	91,619	24.50	6,543	177,159	27.08
October	2,761	95,390	34.55	3,490	94,533	27.09	6,251	189,923	30.38
November..	2,730	97,718	35.79	3,330	95,330	28.63	6,060	193,048	31.86
December..	3,103	116,870	37.66	3,561	107,101	30.08	6,664	223,971	33.61
Totals....	35,627	1,219,306	34.22	43,502	1,184,724	27.23	79,129	2,404,030	30.38

The average age of American decedents during this period of forty-two years was 6.99 greater than that of the foreign class.

In the reports for 1882, 1885, and 1886, more extended comparisons are made between the two classes of decedents, in the matter of age.

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Parentage of decedents at different ages. The next table (XV.) shows the number and percentage of the decedents, *by parentage*, in the different divisions of ages in 1897, and also in the aggregate for forty-two years, from 1856 to 1897, inclusive:

TABLE XV. DEATHS, 1897.

AGES.	American Parentage, 1897.		Foreign Parentage, 1897.		Total American & Foreign, 1897.		Forty-two Years, 1856-1897.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
Under 1 year	274	24.55	363	21.49	637	22.71	15,766	19.92
1 and under 2	53	4.75	87	5.15	140	4.99	5,548	7.01
2 " " 5	48	4.30	69	4.09	117	4.17	5,956	7.53
Total under 5	375	33.60	519	30.73	894	31.87	27,270	34.46
5 and under 10	34	3.05	41	2.43	75	2.67	3,371	4.26
10 " " 15	21	1.88	24	1.42	45	1.61	1,480	1.87
15 " " 20	34	3.05	62	3.67	96	3.42	2,520	3.18
20 " " 30	56	5.02	184	10.89	240	8.56	7,817	9.88
30 " " 40	62	5.55	188	11.13	250	8.91	7,242	9.15
40 " " 50	67	6.00	158	9.35	225	8.02	6,486	8.20
50 " " 60	86	7.70	176	10.42	262	9.34	6,564	8.30
60 " " 70	134	12.01	200	11.84	334	11.91	6,766	8.55
70 " " 80	156	13.98	103	6.10	259	9.23	5,939	7.51
80 " " 90	82	7.35	28	1.66	110	3.92	3,108	3.93
90 and over	9	.81	6	.36	15	.54	566	.71
Total	1,116	100.00	1,689	100.00	2,805	100.00	79,129	100.00

The ratio of deaths under one year to births according to parentage is shown in Table XXIII., the last table in the report.

The following table shows the percentage of decedents in Providence, under 5 years of age, according to parentage, in periods of

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five years each, 1856 to 1895; also in each year since 1895, and in the whole period of forty-two years, from 1856 to 1897, inclusive:

TABLE XVI. DEATHS.

Percentage under 5 years, according to Parentage.

PERIODS.	American Parentage, 42 years, 1856–1897.			Foreign Parentage, 42 years, 1856–1897.			American & Foreign Parentage, 42 years, 1856–1897.		
	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.
1856–1860	2,567	856	33.35	2,340	1,218	52.05	4,907	2,074	42.27
1861–1865	2,875	882	30.68	2,796	1,342	48.00	5,671	2,224	39.22
1866–1870	2,906	804	27.67	2,719	1,128	41.49	5,625	1,932	34.35
1871–1875	4,136	1,297	31.36	4,342	1,788	41.18	8,478	3,085	36.39
1876–1880	4,533	1,547	34.13	5,365	2,145	39.98	9,898	3,692	37.30
1881–1885	5,015	1,613	32.16	6,097	1,859	30.49	11,112	3,472	31.25
1886–1890	5,480	1,880	34.31	7,482	2,299	30.73	12,962	4,179	32.24
1891–1895	5,890	1,948	33.07	8,826	2,765	31.32	14,716	4,713	32.03
1896	1,109	401	36.16	1,846	604	32.72	2,955	1,005	34.01
1897	1,116	375	33.60	1,689	519	30.73	2,805	894	31.87
42 years	35,627	11,603	32.57	43,502	15,667	36.01	79,129	27,270	34.46

For a consideration of the true comparison of the death rates of the two classes of the population, see report for 1894, page 45.

During the fifteen years, from 1840 to 1854, inclusive, of all the decedents in the city, 43.56 in each 100 were under 5 years of age; from 1856 to 1880, inclusive, of all the decedents 37.55 in each 100 were under 5 years; from 1881 to 1891, of all decedents 31.75 in each 100 were under 5 years, showing a progressive decrease in the mortality at this age.

In the fifty-eight years, 1840 to 1897, inclusive, there were 92,274 decedents in Providence, of whom 33,005, or 35.76 per cent., were under 5 years of age. The number and percentage in each division of age under 5 years were as follows:

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Whole number of decedents in 58 years	92.274.	
Under one year of age	18,271	19.80 per cent. of all.
One and under two years	7,331	7.94 per cent. of all.
Two and under five years	7,403	8.02 per cent. of all.
Total under 5 years	33,005	35.76 per cent. of all.

The following table (XVII.) shows the number and percentage, by parentage, of the decedents in each division of ages, in the forty-two years, from 1856 to 1897, inclusive:

Table XVII. Deaths, 1856–1897.

Number and Percentage at Different Ages, according to Parentage.

AGES.	American Parentage, 42 years, 1856–1897.		Foreign Parentage, 42 years, 1856–1897.		American & Foreign Parentage, 42 years, 1856–1897.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
Under 1 year	7,017	19.70	8,749	20.12	15,766	19.92
1 and under 2	2,162	6.07	3,386	7.78	5,548	7.01
2 " " 5	2,424	6.80	3,532	8.12	5,956	7.53
Total under 5	11,603	32.57	15,667	36.02	27,270	34.46
5 and under 10	1,534	4.31	1,837	4.22	3,371	4.26
10 " " 15	700	1.96	780	1.79	1,480	1.87
15 " " 20	1,041	2.92	1,479	3.40	2,520	3.18
20 " " 30	2,665	7.48	5,152	11.84	7,817	9.88
30 " " 40	2,713	7.62	4,529	10.41	7,242	9.15
40 " " 50	2,664	7.48	3,822	8.79	6,486	8.20
50 " " 60	2,904	8.15	3,660	8.41	6,564	8.30
60 " " 70	3,429	9.62	3,337	7.67	6,766	8.55
70 " " 80	3,748	10.52	2,191	5.04	5,939	7.51
80 " " 90	2,258	6.34	850	1.95	3,108	3.93
90 and over	368	1.03	198	.46	566	.71
Totals	35,627	100.00	43,502	100.00	79,129	100.00

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TABLE XVIII. *Deaths by Age and Parentage in each Month and Quarter, 1897.*

	Divisions of the Year.	Divisional Periods of Life.															All Ages.
		Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 to 100.	100 and over.	
American Parentage.	January	19	5	6	2	1	1	5	8	6	8	7	15	7	1	....	91
	February ...	20	3	3	2	2	5	3	5	3	11	14	21	14	3	....	109
	March	16	6	8	4	1	3	3	9	6	7	14	15	3	1	....	96
	1st Quarter..	55	14	17	8	4	9	11	22	15	26	35	51	24	5	....	296
	April	12	5	3	3	1	3	7	6	2	4	17	15	11	1	....	90
	May	23	6	2	4	3	1	6	4	4	6	12	9	7	....	....	87
	June	13	4	4	4	3	1	6	6	5	9	14	9	2	1	....	81
	2d Quarter..	48	15	9	11	7	5	19	16	11	19	43	33	20	2	...	258
	July	47	7	3	4	3	5	3	1	4	7	7	14	7	....	....	112
	August . ..	39	2	5	5	..	3	6	7	5	2	7	6	5	....	....	92
	September..	20	6	2	1	3	3	4	9	6	9	7	9	5	....	....	84
	3d Quarter..	106	15	10	10	6	11	13	17	15	18	21	29	17	....	....	288
	October	28	3	5	1	..	1	3	1	10	8	13	11	7	1	....	92
	November ..	20	5	4	2	1	3	8	4	7	9	8	20	6	...	....	97
	December...	17	1	3	2	3	5	2	2	9	6	14	12	8	1	....	85
	4th Quarter.	65	9	12	5	4	9	13	7	26	23	35	43	21	2	....	274
	Year.....	274	53	48	34	21	34	56	62	67	86	134	156	82	9	....	1,116
Foreign Parentage.	January	27	8	8	2	3	7	20	21	18	17	19	11	2	...	....	163
	February . .	33	11	6	5	1	7	19	18	19	23	21	18	3	1	....	185
	March	23	5	4	2	2	8	8	10	13	14	13	7	2	2	....	113
	1st Quarter .	83	24	18	9	6	22	47	49	50	54	53	36	7	3	....	461
	April	20	9	6	6	1	4	10	16	16	25	18	6	2	....	....	139
	May	24	3	3	4	..	4	19	13	12	12	25	8	1	....	....	128
	June.....	20	7	7	6	2	1	15	16	15	10	21	3	5	....	....	128
	2d Quarter..	64	19	16	16	3	9	44	45	43	47	64	17	8	....	....	395
	July	54	9	2	5	2	5	18	13	7	5	10	5	3	...	....	138
	August	56	9	6	4	4	4	16	18	10	15	20	8	4	....	1	175
	September..	39	14	10	1	1	7	14	14	13	8	12	7	1	1	....	142
	3d Quarter..	149	32	18	10	7	16	48	45	30	28	42	20	8	1	1	455
	October.....	24	8	7	1	3	4	17	17	12	16	14	7	1	1	....	132
	November ..	17	2	5	4	3	5	11	12	8	13	15	8	2	....	....	105
	December...	26	2	5	1	2	6	17	20	15	18	12	15	2	....	....	141
	4th Quarter.	67	12	17	6	8	15	45	49	35	47	41	30	5	1	....	378
	Year.....	363	87	69	41	24	63	184	188	158	176	200	103	28	5	1	1,689
Total Americ'n and Foreign.		637	140	117	75	45	96	240	250	225	262	334	259	110	14	1	2,805

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The whole number of American decedents was 1,116; of decedents of foreign parentage, 1,689. The percentage of each class in the different quarters of the year was as follows:

	1st Quarter.	2d Quarter.	3d Quarter.	4th Quarter.
American parentage	26.52	23.11	25.81	24.56
Foreign parentage	27.29	23.39	26.91	22.38

Table XVIII. shows the relative mortality at different ages and seasons. Of the 288 American decedents in the third quarter, 106, or 36.81 per cent., were less than a year old. The whole number of American decedents under one year was 274; the 106 who died in the third quarter were 38.69 per cent of this number.

Of decedents of foreign parentage, the number in the third quarter was 455; of these 149, or 32.75 per cent., were less than one year old; the whole number of foreign decedents of this age was 363; the 149 dying in the third quarter of the year were 41.05 per cent. of the whole number.

Causes of Death. Table XIX. gives the number of deaths in Providence in 1896 from each cause stated, and in each division of ages; also the number of decedents from each cause, according to sex and parentage; the percentage of deaths from each cause of the whole number from known causes, and also the ratio of deaths from each cause to 100,000 of the population.

Season and Disease. Table XX. shows the number of deaths from some of the most prominent causes, in each month and quarter of the year 1897, showing the comparative mortality from different diseases at different seasons.

Totals for a period of years. Table XXI. gives the number of deaths from the principal causes for a period of years, distributed according to sex and parentage, and also the ratio of deaths from each cause to the total deaths for the same period.

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TABLE XIX. DEATHS, 1897. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	Sex.			Divisional Periods of Life.														Parentage.			Ratio to Known Causes.	Ratio per 100,000 of Population.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Abscesses	3	3	6	1	....	....	....	....	1	....	....	3	....	1	....	....	....	2	4	6	.21	3.28	4.30	3.90
Accidents (various)	22	7	29	....	....	1	1	1	..	5	6	3	4	1	4	3	....	12	17	29	1.04	19.70	18.26	20.83
" Asphyxia	9	5	14	8	....	1	....	....	1	....	2	1	1	....	....	....	....	1	13	14	.50	1.64	13.96	9.09
" Burns and Scalds	11	9	20	....	2	6	1	1	1	....	1	1	3	2	1	1	....	8	12	20	.72	13.13	12.89	12.99
" Drowning	6	....	6	....	....	....	2	....	....	1	3	....	....	....	....	....	....	2	4	6	.21	3.28	4.30	3.90
" Falls	18	6	24	....	1	....	1	....	1	4	5	4	....	3	5	....	....	4	20	24	.86	6.57	20.41	26.98
" Poisoning	5	....	5	....	....	....	....	....	....	1	2	....	....	2	....	....	....	2	3	5	.18	3.28	3.22	3.25
" Railroad	11	....	11	....	....	....	1	....	2	1	2	4	....	1	....	....	....	3	8	11	.39	4.92	8.59	7.14
Alcoholism	7	3	10	....	....	....	....	....	....	....	3	3	2	2	....	....	....	3	7	10	.36	4.92	7.52	6.49
" Delirium Tremens	2	....	2	....	....	....	....	....	....	1	....	....	1	....	....	....	....	2	....	2	.07	3.28	.....	1.30
Anæmia	1	1	2	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	2	2	.07	.....	2.15	1.30
Aneurism	1	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	1	.04	.....	1.07	0.65
Apoplexy	59	90	149	....	....	....	....	1	....	2	6	15	29	43	41	11	1	67	82	149	5.34	110.00	88.08	96.75
Appendicitis	7	3	10	....	....	....	2	3	....	4	1	....	....	....	....	....	....	5	5	10	.36	8.21	5.37	6.49
Asthma	1	1	2	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	2	2	.07	.....	2.15	1.30
Atelectasis	1	1	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	2	.07	3.28	....	1.30
Atheroma	2	....	2	....	....	....	....	....	....	....	....	....	....	....	2	....	....	2	....	2	.07	3.28	....	1.30
Atrophy	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	.04	1.64	.....	0.65
Bones, Diseases of	3	2	5	2	....	....	....	....	....	....	1	....	....	1	1	....	....	3	2	5	.18	4.92	2.15	3.25
" Hip-joint	1	1	2	....	....	1	....	....	....	....	....	....	....	1	....	....	....	1	1	2	.07	1.64	1.07	1.30
" Otitis Media	3	1	4	....	....	2	....	1	....	....	....	1	....	....	....	....	....	3	1	4	.14	4.92	1.07	2.60
" Spine	2	1	3	1	....	....	....	....	....	....	1	....	....	1	....	....	....	1	2	3	.11	1.64	2.15	1.95
Brain, Congestion of	1	1	2	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	2	.07	.....	2.15	1.30
" Diseases of	6	9	15	1	....	....	1	....	....	1	2	3	1	3	2	1	....	8	7	15	.54	13.13	7.52	9.74
" Inflammation of	28	18	46	19	8	6	3	2	3	1	2	....	....	1	1	....	....	21	25	46	1.65	34.48	26.85	29.87

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Table XIX. Deaths, 1897. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

Causes of Death.	Sex.			Divisional Periods of Life.														Parentage.			Ratio to Known Causes.	Ratio per 100,000 of Population.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Bronchitis	51	41	92	35	14	4	2	..	..	1	....	3	6	11	10	6	....	30	62	92	3.30	50.26	66.60	59.74
Cancer (various)	21	29	50	....	....	....	..	1	..	2	6	6	11	13	10	1	....	25	25	50	1.79	41.05	26.06	32.47
" of Breast	.....	16	16	....	....	....	..	..	..	....	2	2	6	3	3	....	....	6	10	16	.57	9.85	10.74	10.39
" of Stomach	10	3	13	....	....	....	..	..	..	1	....	1	7	3	1	....	....	3	10	13	.47	4.92	10.74	8.44
" Uteri	.....	22	22	....	....	....	..	..	..	1	3	6	7	5	....	....	....	7	15	22	.79	11.49	16.11	14.28
Calculi, Vesical	2	.....	2	....	....	....	..	..	..	....	....	....	2	....	....	....	....	.....	2	2	.07	.....	2.15	1.30
Child Birth	.....	6	6	....	....	....	..	..	..	2	3	1	....	....	....	....	....	.....	6	6	.21	.....	6.44	3.90
" Miscarriage	.....	1	1	....	....	....	..	..	..	1	....	....	....	....	....	....	....	.....	1	1	.04	.....	1.07	0.65
" Puerperal Fever	.....	7	7	....	....	....	..	..	1	6	....	....	....	....	....	....	....	2	5	7	.25	3.28	5.37	4.54
" Puerperal Convulsions	.....	5	5	....	....	....	..	..	..	2	3	....	....	....	....	....	....	2	3	5	.18	3.28	3.22	3.25
Cholera Infantum	58	57	115	94	18	3	..	..	..	....	....	....	....	....	....	....	....	42	67	115	4.12	78.81	71.96	74.67
" Morbus	1	3	4	....	....	....	1	..	1	1	....	1	....	....	....	....	....	.....	4	4	.14	.....	4.30	2.60
Convulsions	25	18	43	28	9	3	3	..	..	..	....	..	....	....	....	....	....	15	28	43	1.54	24.63	30.07	27.92
Croup	9	4	13	5	1	5	2	..	..	....	....	....	....	....	....	....	....	8	5	13	.47	13.13	5.37	8.44
Cystitis	4	1	5	....	....	....	..	..	..	....	..	....	1	1	1	2	...	1	4	5	.18	1.64	4.30	3.25
Debility	8	9	17	12	...	1	..	..	..	....	....	1	....	1	2	....	....	8	9	17	.61	13.13	9.67	11.04
" Premature Birth	42	31	73	73	....	....	..	..	..	....	....	....	....	....	....	....	....	32	41	73	2.62	52.54	44.04	47.40
Diabetes	7	9	16	....	....	....	..	1	..	2	3	3	3	2	1	1	....	6	10	16	.57	9.85	10.74	10.39
Diarrhœa	5	8	13	6	....	....	..	..	..	....	....	....	..	3	3	1	....	6	7	13	.47	9.85	7.52	8.44
" Chronic	2	2	4	1	....	....	..	..	..	....	....	....	....	1	1	1	....	1	3	4	.14	1.64	3.22	2.60
Difficult Labor	2	1	3	3	....	....	..	..	..	....	....	....	....	....	....	....	....	2	1	3	.11	3.28	1.07	1.95
Diphtheria	41	37	78	8	12	27	26	2	1	2	....	....	....	....	....	....	....	41	37	78	2.80	68.31	39.74	50.65
Dropsy	1	.....	1	....	....	....	..	..	..	....	....	....	1	....	....	....	....	.....	1	1	.04	.....	1.07	0.65
Dysentery	5	13	18	2	....	....	..	..	..	1	3	5	1	3	2	1	....	3	15	18	.64	4.92	16.11	11.69
Embolism	2	2	4	....	....	....	..	..	..	1	1	1	....	1	....	....	....	1	3	4	.14	1.64	3.22	2.60

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TABLE XIX. DEATHS, 1897. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	Sex.			Divisional Periods of Life.														Parentage.			Ratio to Known Causes.	Ratio per 100,000 of Population.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Emphysema	1	1	2										2					1	1	2	.07	1.64	1.07	1.30
Empyema	4		4		1						1		1	1					4	4	.14		4.30	2.60
Enteritis	8	12	20	8	3	1					2		3			3		7	13	20	.72	11.49	13.96	12.99
" Colo	13	11	24	16	3	3	1								1			6	18	24	.86	9.85	19.33	15.58
" Gastro	30	34	64	51	6	2				1	1		1		1	1		25	39	64	2.29	41.07	41.89	41.56
" Muco		1	1	1															1	1	.04		1.07	0.65
" Ileo-Colitis	1	1	2	1	1														2	2	.07		2.15	1.30
Epilepsy	1	3	4					1		2					1			3	1	4	.14	4.92	1.07	2.60
Erysipelas	4	2	6	1		1				1		1	1		1			1	5	6	.21	1.64	5.37	3.90
Exophthalmic Goitre		1	1										1					1		1	.04	1.64		0.65
Exposure and Exhaustion		2	2									1		1					2	2	.07		2.15	1.30
Fever, Intermittent		1	1										1						1	1	.04		1.07	0.65
" Malarial	5	8	13	3	1	2	2		2	1	1		1					1	12	13	.47	1.64	12.89	8.44
" Typho-malarial		2	2					1			1							1	1	2	.07	1.64	1.07	1.30
" Typhoid	15	9	24		1	1	1	1	3	7	2	4	1	3				8	16	24	.86	13.13	17.19	15.58
" Congestive Chill	2		2					1				1						1	1	2	.07	1.64	1.07	1.30
Fistula	1		1										1					1		1	.04	1.64		0.65
Gall Duct, Rupture of	1		1								1								1	1	.04		1.07	0.65
" Stones		3	3								1			2				1	2	3	.11	1.64	2.15	1.95
Gangrene	2		2										1	1				1	1	2	.07	1.64	1.07	1.30
Glottis, Spasm of	1		1	1														1		1	.04	1.64		0.65
Hemorrhage	6	11	17	6					1	3	1	1	1	3		1		6	11	17	.61	9.85	11.81	11.04
Heart, Diseases of	118	112	230	3		2	1	6	9	16	17	21	31	66	42	15	1	98	132	230	8.25	160.91	141.79	149.35
Heat	1		1															1		1	.04	1.64		0.65
Hernia	1	5	6	1								3	1	1				1	5	6	.21	1.64	5.37	3.90
Hodgkin's Disease	1		1						1									1		1	.04	1.64		0.65

TABLE XIX. DEATHS, 1897. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	Sex.			Divisional Periods of Life.														Parentage.			Ratio to Known Causes.	Ratio per 100,000 of Population.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Homicide	5	2	7	2					1		3		1					1	6	7	.25	1.64	6.44	4.54
Hydrocephalus	4	2	6	5		1												3	3	6	.21	4.92	3.22	3.90
Icterus Neonatorum		1	1	1															1	1	.04		1.07	0.65
Inanition	10	12	22	20	1		1											9	13	22	.79	14.78	13.96	14.28
Indigestion	14	8	22	16	2	2	1									1		15	7	22	.79	24.63	7.52	14.28
Influenza	18	51	69	8				3	1	2	4	5	16	9	15	6		34	35	69	2.47	55.82	37.60	44.80
Injury at Birth	3	1	4	4														2	2	4	.14	3.28	2.15	2.60
Insanity	4	5	9									1	2	4	2			6	3	9	.32	9.85	3.22	5.84
" General Paralysis	6	2	8									1		5	1	1		6	2	8	.29	9.85	2.15	5.19
Intestinal Obstruction	2	4	6	1	2		1			1			1						6	6	.21		6.44	3.90
Intussusception	1	1	2	1									1					1	1	2	.07	1.64	1.07	1.30
Jaundice	2		2	1		1												1	1	2	.07	1.64	1.07	1.30
Kidneys, Diseases of	6	2	8	1						1	1	1	1		1	2		4	4	8	.29	6.57	4.30	5.19
" Bright's Disease	26	42	68			1		1	6	5	7	12	13	14	8	1		28	40	68	2.44	45.97	42.97	44.15
" Nephritis	44	30	74	1			1		1	4	10	10	15	17	11	3	1	33	41	74	2.65	54.18	44.04	48.05
" Uræmia	2	4	6						1	1				3	1			3	3	6	.21	4.92	3.22	3.90
Laryngitis	5	1	6		2	3								1					6	6	.21		6.44	3.90
Liver, Diseases of	4	5	9			1	1	1	1	1	1				3			6	3	9	.32	9.85	3.22	5.84
" Cirrhosis of	13	7	20							1	5	4	1	9				2	18	20	.72	3.28	19.33	12.99
Lungs, Diseases of	2	1	3									2	1					2	1	3	.11	3.28	1.07	1.95
Lupus of Face	1		1										1						1	1	.04		1.07	0.65
Malformations	17	13	30	30														14	16	30	1.07	22.99	17.19	19.48
Marasmus	15	19	34	32	1									1				17	17	34	1.22	27.91	18.28	22.08
Measles	15	3	18	7	7	3	1											8	10	18	.65	13.13	10.74	11.69
Meningitis, Cerebro-Spinal	6	1	7	3		2			1	1								4	3	7	.25	6.57	3.22	4.54
Menorrhagia		1	1									1						1		1	.04	1.64		0.65

Table XIX. Deaths, 1897. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

Causes of Death.	Sex.			Divisional Periods of Life.														Parentage.			Ratio to Known Causes.	Ratio per 100 000 of Population.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Neuritis	1		1								1								1	1	.04		1.07	0.65
Neurosis	1		1							1								1		1	.04	1.64		0.65
Nicotine Poisoning	1		1										1					1		1	.04	1.64		0.65
Old Age	21	45	66											6	19	33	8	41	25	66	2.37	67.32	26.85	42.86
" " Gangrene	1	2	3											2		1		1	2	3	.10	1.64	2.15	1.95
Opium Habit		1	1									1						1		1	.04		1.07	0.65
Pancreatitis		1	1										1						1	1	.04		1.07	0.65
Paralysis	11	11	22									2	3	10	6	1		14	8	22	.79	22.99	8.59	14.28
Peritonitis	7	13	20		1	1		2	2	3	3	1	6		1			8	12	20	.72	13.13	12.89	12.99
Pernicious Anæmia		3	3	1							1			1				2	1	3	.11	3.28	1.07	1.95
Phlebitis	1	1	2	1										1					2	2	.07		2.15	1.30
Phthisis	173	148	321	5	1		2	5	35	105	79	42	24	18	5			92	229	321	11.50	151.05	245.98	208.44
Pleurisy	3	2	5								2	1		1	1				5	5	.18		5.37	3.25
Pneumonia	127	107	234	45	19	12	7	6	5	14	18	25	20	22	26	8	4	82	152	234	8.39	134.63	163.27	151.95
" Congestion of Lungs	4	5	9	2		1					3				2	1		3	6	9	.32	4.92	6.44	5.84
Prostate, Disease of	6		6										1	2	3			3	3	6	.21	4.92	3.22	3.90
Pyæmia	2	3	5						1		2	1	1					3	2	5	.18	4.92	2.15	3.25
Pyosalpinx		4	4							1	3							1	3	4	.14	1.64	3.22	2.60
Rachitis	4	1	5	3	2													3	2	5	.18	4.92	2.15	3.25
Rheumatism		3	3						1					1	1			1	2	3	.11	1.64	2.15	1.95
Scarlet Fever	6	5	11	2		6	3											4	7	11	.39	6.57	7.52	7.14
Salpingitis		2	2							2								1	1	2	.07	1.64	1.07	1.30
Septicæmia	5	1	6	3			1			1		1						3	3	6	.21	4.92	3.22	3.90
Spinal Cord, Diseases of	6	8	14		1				1	2	1		2	1	5	1		10	4	14	.51	16.41	4.30	9.09
Stomach, " "	2	2	4								1		2					2	2	4	.14	3.28	2.15	2.60

TABLE XIX. DEATHS, 1897. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	Sex.			Divisional Periods of Life.														Parentage.			Ratio to Known Causes.	Ratio per 100,000 of Population.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Stomach, Diseases of, Gastritis	5	13	18	2	....	....	..	..	..	1	....	1	2	5	6	1	....	7	11	18	.65	11.49	11.81	11.69
Suicide	12	4	16	....	....	....	..	..	1	3	5	4	2	1	....	....	....	8	8	16	.57	13.13	8.59	10.39
Surgical Operation	....	1	1	....	....	....	..	..	..	1	....	....	....	....	....	....	....	....	1	1	.04	....	1.07	0.65
Syphilis	1	....	1	....	....	....	..	..	..	....	....	1	....	....	....	....	....	....	1	1	.04	....	1.07	0.65
" Congenital	5	4	9	9	....	....	..	..	..	....	....	....	....	....	....	....	....	2	7	9	.32	3.28	7.52	5.84
Tabes Mesenterica	3	1	4	3	....	....	..	..	..	....	....	....	....	....	....	....	....	2	2	4	.14	3.28	2.15	2.60
Teething	6	2	8	4	4	....	..	..	..	....	....	....	....	....	....	....	....	4	4	8	.22	6.57	4.30	5.19
Tetanus	6	2	8	2	....	....	..	2	1	1	1	....	1	....	....	....	....	3	5	8	.29	4.92	5.37	5.19
Thrombosis	1	1	2	....	....	....	..	..	..	....	....	....	....	1	1	....	....	2	....	2	.07	3.28	....	1.30
Tonsilitis	1	....	1	....	....	....	..	..	..	1	....	....	....	....	....	....	....	....	1	1	.04	....	1.07	0.65
Tubercular Meningitis	15	11	26	6	7	7	2	..	..	3	1	....	....	....	....	..	....	11	15	26	.93	18.06	16.11	16.88
Tuberculosis	18	15	33	5	1	2	2	1	5	5	5	3	2	2	....	....	....	13	20	33	1.18	21.34	21.48	21.43
Tumors	5	16	21	1	....	....	..	..	..	4	2	1	4	6	2	1	....	10	11	21	.76	16.42	11.81	13.64
Ulcer	....	1	1	....	....	....	..	..	..	....	....	....	1	....	....	....	....	1	....	1	.04	1.64	....	0.65
Urethra, Stricture of	1	....	1	....	....	....	..	..	..	....	....	1	....	....	....	....	....	....	1	1	.04	....	1.07	0.65
Volvulus	1	....	1	....	....	....	..	..	..	....	....	....	1	....	....	....	....	1	....	1	.04	1.64	....	0.65
Whooping Cough	6	10	16	8	6	2	..	..	..	....	....	....	....	....	....	....	..	5	11	16	.57	8.21	11.81	10.39
Unknown	11	5	16	5	2	....	1	..	1	....	1	1	2	3	....	....	....	4	12	16	....	6.57	12.89	10.39
Totals	1,427	1,378	2,805	637	140	117	75	45	96	240	250	225	262	334	259	110	15	1,116	1,689	2,805	100.00	1832.36	1814.28	1821.43

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TABLE XX. DEATHS, 1897. *Season and Disease.*

CAUSES OF DEATH.	January.	February.	March.	First Quarter.	April.	May.	June.	Second Quarter.	July.	August.	September.	Third Quarter.	October.	November.	December.	Fourth Quarter.	Whole Year.
Accidents	9	4	7	20	11	9	10	30	9	11	5	25	7	15	12	34	109
Alcoholism	2	1	.....	3	1	1	1	3	2	1	.....	3	1	1	1	3	12
Apoplexy	14	19	13	46	9	14	10	33	8	7	16	31	12	10	17	39	149
Brain, Diseases of	9	5	2	16	7	5	5	17	4	6	2	12	7	3	8	18	63
Bronchitis	5	24	17	46	4	5	7	16	4	4	6	14	3	3	10	16	92
Cancer	5	8	8	21	16	8	15	39	9	10	4	23	5	4	9	18	101
Child Birth	1	.....	3	4	3	2	2	7	2	2	.....	4	1	1	1	3	18
Cholera Infantum	.....	.....	.....	.....	.....	2	.....	2	36	41	21	98	13	1	1	15	115
" Morbus	.....	.....	.....	.....	.....	.....	.....	.....	2	1	1	4	.....	.....	.....	.....	4
Convulsions	6	6	.....	12	4	6	3	13	6	2	3	11	2	3	2	7	43
Croup	6	.....	.....	6	2	1	.....	3	1	.....	.....	1	.....	3	.....	3	13
Debility	3	1	1	5	1	2	1	4	.....	.....	4	4	.....	2	2	4	17
" Premature Birth	5	4	2	11	3	6	7	16	17	8	4	29	4	6	7	17	73
Diarrhœa	.....	.....	1	1	1	.....	2	3	5	3	1	9	2	2	.....	4	17
Diphtheria	8	7	10	25	6	9	7	22	4	5	1	10	4	11	6	21	78
Dysentery	.....	.....	.....	.....	.....	.....	2	2	1	9	.....	10	5	1	.....	6	18
Enteritis	4	2	3	9	6	3	8	17	18	26	19	63	12	6	4	22	111
Erysipelas	1	.....	.....	1	1	2	1	4	.....	.....	.....	.....	1	.....	.....	1	6
Fever, Typhoid	2	2	.....	4	2	.....	.....	2	.....	.....	2	2	3	6	7	16	24
" Malarial, etc.	.....	.....	.....	.....	1	3	4	8	2	4	3	9	1	.....	.....	1	18
Heart, Diseases of	25	12	27	64	22	22	26	70	14	15	12	41	25	20	10	55	230
Influenza	13	45	8	66	.....	2	.....	2	.....	.....	.....	.....	.....	.....	1	1	69
Insanity	2	3	1	6	2	.....	.....	2	1	1	1	3	1	1	4	6	17
Kidneys, Diseases of	12	10	14	36	15	12	12	39	10	13	18	41	12	14	14	40	156
Liver, "	2	1	2	5	3	4	6	13	.....	3	1	4	2	3	2	7	29
Malformations	1	2	3	6	4	3	1	8	5	1	1	7	4	3	2	9	30
Marasmus	1	.....	2	3	6	4	3	13	5	4	5	14	.....	3	1	4	34
Measles	1	1	.....	2	1	.....	3	4	1	1	7	9	2	.....	1	3	18
Meningitis, Cerebro-Spinal	.....	.....	.....	.....	1	.....	.....	1	1	1	.....	2	1	2	1	4	7
Old Age	6	8	5	19	7	1	3	11	7	7	6	20	6	9	4	19	69

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TABLE XX—CONCLUDED. DEATHS, 1897. *Season and Disease.*

CAUSES OF DEATH.	January.	February.	March.	First Quarter.	April.	May.	June.	Second Quarter.	July.	August.	September.	Third Quarter.	October.	November.	December.	Fourth Quarter.	Whole Year.
Paralysis	2	3	5	10	2	2	1	5	2	.....	2	4	2	.....	1	3	22
Peritonitis	2	3	.....	5	3	.....	1	4	4	2	3	9	1	.....	1	2	20
Phthisis	35	34	22	91	26	29	21	76	22	30	32	84	24	22	24	70	321
Pneumonia	31	52	21	104	19	17	4	40	6	6	11	23	19	18	30	67	234
" Congestion of Lungs	1	.....	.....	1	1	3	.....	4	....	1	1	2	.....	1	1	2	9
Rheumatism	.....	.....	1	1	.....	.....	.....	.....	.....	1	.....	1	1	.....	.....	1	3
Scarlet Fever	.....	.....	2	2	3	.....	1	4	.....	.....	1	1	3	.....	1	4	11
Stomach, Diseases of	.....	.....	2	2	4	4	.....	8	1	2	2	5	2	1	4	7	22
Suicide	3	.....	.....	3	2	1	3	6	.....	2	3	5	1	.....	1	2	16
Teething	.....	1	.....	1	1	1	1	3	1	1	... ..	2	.....	1	1	2	8
Tubercular Meningitis	2	1	5	8	4	3	3	10	4	2	1	7	.....	.....	1	1	26
Tuberculosis	3	6	4	13	.....	3	4	7	4	3	2	9	2	2	.....	4	33
Tumors	.....	2	1	3	1	2	1	4	2	4	2	8	1	2	2	5	20
Whooping Cough	4	.....	2	6	.....	2	3	5	2	1	1	4	1	.....	.....	1	16
Unknown	2	2	2	6	2	2	1	5	1	.....	2	3	.....	1	1	2	16
Other Causes	26	25	13	64	22	20	26	68	27	26	20	73	31	21	31	83	288
Totals	254	294	209	757	229	215	209	653	250	267	226	743	224	202	226	652	2,805

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TABLE XXI.

Deaths from a number of principal causes for forty-two years, 1856–1897.

FORTY-TWO YEARS, 1856–1897.	AMERICAN.		FOREIGN.		MALES.		FEMALES.		Total Deaths.	Ratio per 100,000 of population.
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
Abscesses	96	5.23	128	6.01	110	5.81	114	5.50	224	5.65
Accidents	857	46.71	1,616	75.93	1,870	98.93	603	29.09	2,473	62.41
Alcoholism	121	6.59	343	16.11	333	17.61	131	6.32	464	11.70
Aneurism	30	1.63	43	2.02	55	2.90	18	.86	73	1.84
Apoplexy	1,403	76.48	1,040	48.87	1,141	60.36	1,302	62.82	2,443	61.65
Brain, Diseases of	1,369	74.62	1,288	60.52	1,430	75.65	1,227	59.20	2,657	67.05
Bronchitis	884	48.18	1,218	57.23	986	52.16	1,116	53.85	2,102	53.04
Cancer	1,253	68.30	951	44.68	600	31.74	1,604	77.39	2,204	55.62
Child Birth	279	15.20	506	23.77	.....	.....	785	37.87	785	19.81
Cholera Infantum	1,541	84.00	2,493	117.14	2,093	110.73	1,941	93.65	4,034	101.80
Convulsions	791	43.12	1,088	51.12	1,004	53.11	875	42.22	1,879	47.41
Croup	508	27.69	744	34.96	643	34.01	609	29.38	1,252	31.59
Debility	718	39.14	843	39.61	834	44.12	727	35.08	1,561	39.39
Diarrhœal Diseases	3,135	170.89	4,731	222.31	3,942	208.56	3,924	189.34	7,866	198.51
*Diphtheria	1,105	62.19	1,319	63.20	1,222	66.29	1,202	59.49	2,424	62.74
Erysipelas	165	8.99	184	8.64	173	9.15	176	8.49	349	8.80
Fever, Typhoid	985	53.69	1,127	52.95	1,141	60.36	971	46.85	2,112	53.29
Heart Disease	2,469	134.59	2,280	107.13	2,270	120.10	2,479	119.61	4,749	119.84
Heat	9	0.49	83	3.90	77	4.07	15	.72	92	2.32
Hernia	62	3.37	82	3.85	67	3.54	77	3.71	144	3.63
†Inanition	130	15.20	138	11.28	141	14.16	127	11.72	268	12.89
Insanity	355	19.35	153	7.18	240	12.69	268	12.93	508	12.82

* For 40 years, 1858–1897. † For 16 years, 1882–1897.

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TABLE XXI.—CONCLUDED.

Deaths from a number of principal causes for forty-two years, 1856–1897.

FORTY-TWO YEARS, 1856–1897.	AMERICAN.		FOREIGN.		MALES.		FEMALES.		Total Deaths.	Ratio per 100,000 of population.
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
Kidneys, Disease of	1,048	57.13	1,213	56.99	1,215	64.28	1,046	50.47	2,261	57.06
Liver, Diseases of	363	19.78	519	24.38	454	24.02	428	20.65	882	22.25
Malformations	247	13.46	204	9.58	278	14.70	173	8.35	451	11.38
Marasmus	619	33.74	644	30.26	689	36.45	574	27.69	1,263	31.62
Measles	190	10.35	377	17.71	293	15.50	274	13.22	567	14.30
*Meningitis, Cerebro-Spinal	112	6.99	119	6.08	124	7.29	107	5.76	231	6.49
Old Age	1,511	82.36	1,070	50.24	857	45.34	1,732	83.57	2,589	65.33
Paralysis	598	32.59	298	14.00	422	22.32	474	22.87	896	22.61
Peritonitis	289	15.75	309	14.52	241	12.75	357	17.22	598	15.09
Phthisis	4,446	242.37	7,088	333.07	5,476	289.72	6,058	292.31	11,534	291.07
Pneumonia and Congestion of Lungs	2,861	155.96	3,705	174.10	3,408	180.30	3,158	152.38	6,566	165.70
Rheumatism	125	6.81	176	8.27	131	6.93	170	8.20	301	7.59
Scarlet Fever	1,140	62.14	1,689	79.36	1,370	72.48	1,459	70.40	2,829	71.39
Small Pox	50	2.72	35	1.64	63	3.33	22	1.06	85	2.14
Suicide	176	9.59	173	8.12	261	13.80	88	4.24	349	8.80
†Tuberculosis	344	18.75	328	15.41	331	17.51	341	16.45	672	16.95
Whooping Cough	364	19.84	498	23.40	388	20.52	474	22.87	862	21.75
Unknown	275	14.99	518	24.34	421	22.27	372	17.95	193	4.87

* For 34 years, 1864–1897. † For 31 years, 1867–1897.

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NOTES ON THE CAUSES OF DEATH

During the Year 1897.

These notes are in explanation of the facts given in tables XIX., XX., and XXI.

The percentage of deaths from the different causes has always been reckoned on the number of deaths from *known* causes, except in table XXI.

The number of deaths in Providence in 1896 was 2,805; of these there were 16, or 0.57 per cent., where no cause of death could be determined or recorded; the number from known causes, therefore, and on which all the percentages are reckoned was 2,789.

In the forty-two years, 1856 to 1897, inclusive, there were 79,129 deaths in Providence; 793, or 1.02 per cent., for which no cause was given, the number from *known causes* being 78,336. In the 58 years, 1840 to 1897, inclusive, there were 92,270 deaths; of 1,795, or 1.94 per cent., the cause was not stated; the number of deaths from *known causes* in this period being 90,479.

Abscesses. The number of deaths from abscess in 1897 was 6, 7 less than in 1896. The location of the abscesses, was as follows: One each, pelvic, lumbar, of the breast, of the kidney, of the throat and neck, and of the hip.

Accidents. There were 99 deaths from accidents in 1897, or 8 less than in 1896. There were 14 deaths from asphyxia, 20 from burns and scalds, 6 from drowning, 4 from electric shock, 24 from falls, 5 from poisoning, 11 railroad accidents, and 29 from various other accidents.

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The following shows the number of deaths from the different kinds of accidents by five year periods for the forty years from 1856 to 1895, and for the years 1896 and 1897, and for the whole period of forty-two years:

YEARS.	Asphyxia.	Burns and Scalds.	Drowning.	Electric.	Falls.	Poison.	Railroad.	Various.	Totals.
1856-1860	.....	11	20	.....	19	10	17	45	142
1861-1865	6	33	28	.....	33	6	17	37	160
1866-1870	4	26	23	.....	43	10	19	37	162
1871-1875	3	31	45	....	54	11	40	58	242
1876-1880	9	49	59	.....	45	12	26	80	280
1881-1885	10	43	54	.....	73	16	42	116	354
1886-1890	14	47	64	.....	91	19	55	105	395
1891-1895	35	56	66	.....	82	38	65	180	522
1896	6	7	12	4	18	11	19	30	107
1897	14	20	6	.....	24	5	11	29	109
Totals	101	343	377	4	482	138	311	717	2,473

The "various accidents," and indeed the exact nature of the accidents generally, were not so carefully specified in past years as at the present time, so that it is not possible to present strictly accurate statistics in regard to them. In the report of 1894 certain notes may be found concerning these "various" accidents for preceding years:

During 1897 the causes of deaths by accidents, so far as specified, were as follows:

Asphyxia. Of the deaths by asphyxia, 5 were by bedclothes, 2 from gas in a cesspool, and one each: "neonatorum," at birth, from hæmatoma, smoke, food in larynx, foreign body in œsophagus, and caving in of sand-bank.

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Burns and Scalds. Of the deaths from this cause, 3 were from the explosion of lamps, 2 from explosion due to gasoline, and one each: oil stove explosion, from burning house, steam from vat, boiling water, matches, burning barn, and upsetting lamp.

Poisoning. There were 2 deaths from poisoning by coal gas, and one each from sulphuric acid, aconite, and cyanide of potassium.

Various Accidents. There were 29 accidents of various kinds which caused death as follows: 3 from fall of coal staging, 2 run over by electric car, and 2 struck by electric car, 2 fracture of leg, 2 fracture of thigh, 3 fracture of skull, 1 fracture of spine, 1 injury to spine, 1 concussion of brain, 2 internal injuries, 2 run over, 2 from bursting fly wheel, 1 from a flying stick, 1 from dynamite explosion, 1 gunshot wound, 1 thrown from sleigh, 1 stab-wound, 1 thumb cut off (hemorrhage).

Aneurism. There was one death from aneurism of the aorta.

Apoplexy. This was given as the cause of 149 deaths in 1897, 40 more than in 1896.

The following table gives the deaths from this disease for periods of five years from 1856 to 1895; for 1896, and 1897, and for the whole period of 42 years. It will be seen from this table that there has been a continual increase in this disease during the past 42 years. There has been practically no difference in the incidence of apoplexy upon males and females, but there is a very great difference as regards persons of American and foreign parentage:

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Decedents from Apoplexy, 42 Years, 1856–1897.

Years.	Parentage.				Sex.				Total Deaths.	Ratio of 100,000 of Population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.		
1856–60.....	63	44	24	23	44	38	43	32	87	33
1861–65.....	63	42	23	20	40	33	46	33	86	32
1866–70.....	103	59	31	23	60	42	74	45	134	43
1871–75.....	124	57	53	26	87	43	90	41	177	42
1876–80.....	153	63	87	31	123	49	117	43	240	47
1881–85.....	241	96	153	48	176	65	218	73	394	68
1886–90.....	256	99	235	64	228	76	263	80	491	79
1891–95.....	283	103	293	70	278	83	298	83	576	83
1896.... ...	50	84	59	65	46	63	63	80	109	72
1897.....	67	110	82	88	59	79	90	112	149	97
42 years..	1,403	76	1,040	49	1,141	60	1,302	63	2,443	62

Bones, Diseases of. There were 14 cases of diseases of the bones, of which 2 were of the hip joint, 3 of the spine, 4 otitis media, 2 mastoid abscess, 2 necrosis of bones of the leg, and 1 osteomyelitis.

Brain, Diseases of. The number of deaths reported from diseases of the brain was 63, or 7 more than in 1896. Of these 46 were called inflammation, 2 congestion, 3 atrophy, 3 tumor, 2 paralysis, 2 glioma, and 1 each: softening, fluid under arachnoid, cerebral convulsions, and 2 associated with mental disease.

Bronchitis caused 92 in 1897; this was 24 less than in 1896. For particulars, see the table on the following pages:

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Bronchitis in Providence, Forty-two Years, 1856–1897.

Sex, Parentage, Season; Age; Whole Number and Ratio to Known Causes.

BRONCHITIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Whole number. ...	26	33	56	117	46	44	47	34	56	53	60	57	62	77	82	83	86	107	133	117	148	125	122	123	116	92	2,102
Percentage.....	0.55	0.60	1.01	1.40	2.49	2.27	2.38	1.68	2.71	2.49	2.68	2.46	2.78	3.57	3.49	3.18	3.30	4.30	4.65	4.47	5.02	4.00	4.25	4.03	3.96	3.30	2.68
Sex:																											
Males.....	16	12	22	51	20	21	18	12	29	33	21	28	23	40	25	47	38	56	66	50	64	67	58	59	59	51	986
Females.....	10	21	34	66	26	23	29	22	27	20	39	29	39	37	57	36	48	51	67	67	84	58	64	64	57	41	1,116
Parentage:																											
American.....	13	18	24	45	20	25	19	18	22	27	24	24	28	43	44	29	29	42	61	48	58	52	47	42	52	30	884
Foreign.....	13	15	32	72	26	19	28	16	34	26	36	33	34	34	38	54	57	65	72	69	90	73	75	81	64	62	1,218
Season:																											
January.....	4	5	8	13	1	8	7	6	2	6	7	5	7	9	8	11	12	10	19	12	33	17	13	11	9	5	248
February.....	...	4	9	10	6	1	9	4	6	5	7	5	9	7	9	7	12	18	8	10	22	15	12	15	18	24	252
March.....	4	3	4	8	4	3	6	5	8	3	5	5	5	13	11	14	11	14	14	8	12	12	18	22	11	17	247
April.....	4	5	4	15	4	3	5	4	9	6	4	8	7	10	13	7	9	16	17	12	11	16	16	15	14	4	238
May.....	2	6	4	4	5	4	3	2	6	8	6	5	5	4	8	5	9	7	20	8	10	12	7	13	17	5	180
June.....	3	....	4	9	3	2	4	3	4	4	6	4	1	6	5	6	6	4	12	6	6	7	4	4	7	7	127
July.....	2	....	3	10	3	2	2	..	1	....	3	3	4	3	4	2	6	7	5	5	11	2	9	5	4	4	100
August.....	1	1	1	3	1	3	1	2	3	4	2	2	6	5	3	2	2	4	2	2	4	3	7	7	4	4	79
September.....	1	5	3	8	4	2	....	1	4	4	3	1	....	3	5	5	3	2	3	8	11	8	2	3	5	6	100
October.....	2	4	5	12	1	7	4	....	3	1	2	3	5	7	9	3	2	1	8	5	5	4	12	7	7	3	122
November.....	2	...	7	15	4	5	3	4	1	3	8	8	9	8	4	10	3	10	7	9	10	9	12	10	6	3	170
December.....	1	....	4	10	10	4	3	3	9	9	7	8	4	2	8	11	11	14	18	32	13	13	10	11	14	10	239

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Bronchitis in Providence, Forty-two Years, 1856–1897.—Concluded.

Sex, Parentage, Season; Age; Whole Number and Ratio to Known Causes.

BRONCHITIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
AGE:																											
Under 1 year..	10	10	10	35	17	14	20	10	21	23	25	19	20	31	28	25	33	33	55	38	40	46	41	44	46	35	729
1 and under 2..	8	3	3	18	8	5	9	5	4	6	4	7	7	5	10	12	12	17	16	13	9	21	13	18	16	14	262
2 " " 5..	1	2	4	10	....	3	4	3	4	4	5	5	1	6	8	6	5	9	7	10	9	6	9	16	14	4	155
5 " " 10..	...	...	....	1	....	...	1	....	1	1	....	2	1	2	1	2	2	1	....	1	1	2	3	1	2	2	27
10 " " 15..	...	....	....	....	....	....	...	....	1	....	....	....	....	1	....	....	1	1	1	....	2	....	...	....	....	....	7
15 " " 20..	....	....	....	2	....	...	....	....	....	....	....	....	1	....	1	....	1	1	1	...	2	...	....	2	1	...	12
20 " " 30..	....	....	1	1	1	1	...	1	1	....	1	1	1	1	2	2	2	3	2	3	9	2	4	1	3	1	44
30 " " 40..	1	1	2	3	1	1	....	...	....	....	2	3	1	3	2	3	2	3	3	1	6	4	5	1	....	..	48
40 " " 50..	1	1	6	3	1	4	1	....	1	3	....	2	1	5	1	1	1	1	5	6	6	8	....	3	3	3	67
50 " " 60..	1	2	4	6	2	1	....	....	3	1	....	4	5	6	4	10	3	8	6	8	12	6	14	5	3	6	120
60 " " 70..	2	5	14	12	4	3	3	2	5	6	9	3	6	5	5	8	9	11	15	11	19	14	11	6	11	11	210
70 " " 80..	1	7	9	17	7	11	4	6	11	6	8	8	11	9	13	8	8	10	15	15	17	9	13	18	15	10	266
80 " " 90..	1	3	3	8	4	1	5	5	3	3	5	2	5	2	4	5	7	7	7	10	14	7	9	6	2	6	134
90 and over....	....	....	....	1	1	....	....	2	1	....	1	1	2	1	3	1	....	2	....	1	2	....	....	2	....	....	21
First quarter.....	8	12	21	31	11	12	22	15	16	14	19	15	21	29	28	32	35	42	41	30	67	51	43	48	38	46	747
Second quarter ...	9	11	12	28	12	9	12	9	19	18	16	17	13	20	21	18	24	27	49	26	27	35	27	32	38	16	545
Third quarter.....	4	6	7	21	8	7	3	3	8	8	8	6	10	11	12	9	11	13	10	15	26	13	18	15	13	14	279
Fourth quarter	5	4	16	37	15	16	10	7	13	13	17	19	18	17	21	24	16	25	33	46	28	26	34	28	27	16	531
First four months..	12	17	25	46	15	15	27	19	25	20	23	23	28	39	41	39	44	58	58	42	78	67	59	63	52	50	985
Second four " ..	8	7	12	26	12	11	10	7	14	16	17	14	16	18	15	15	23	22	30	21	31	24	27	29	32	20	486
Third four " ..	6	9	19	45	19	18	10	8	17	17	20	20	18	20	26	29	19	27	36	54	39	34	36	31	32	22	631

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DECEDENTS FROM BRONCHITIS, 42 YEARS, 1856–1897.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of Population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.		
1856-60.....	13	9	13	12	16	13	10	7	26	10
1861-65.....	18	11	15	13	12	9	21	14	33	12
1866-70... .	24	13	32	23	22	15	34	20	56	18
1871-75.....	45	20	72	35	51	25	66	29	117	27
1876-80. ...	104	43	123	43	100	39	127	46	227	43
1881-85.....	146	58	163	51	145	53	164	55	309	54
1886-90.....	205	79	286	77	232	77	259	79	491	78
1891-95.....	247	89	388	92	298	89	337	93	635	91
1896.....	52	85	64	70	59	81	57	73	116	77
1897..	30	50	62	67	51	68	41	51	92	60
42 years..	884	48	1,218	57	986	52	1,116	54	2,102	53

Cancer. The number of deaths from this cause in 1897 was 101, or 12 more than in 1896. Of these 22 were cancer of the uterus, 16 of the breast, 13 of the stomach, 12 of the liver, 5 of the abdomen, 4 of the face, 3 of the mesentery, 3 of the rectum, 2 of the ovaries, 2 of the bladder, 2 of the bowels, and 1 each of the omentum, œsophagus, axillary glands, throat, pancreas, liver and pancreas, spleen, buttocks, lip, spinal cord, kidney, jaw, larynx, tongue, and thyroid gland. The location of two was not specified.

The following table shows the sex, parentage, whole number, and ratio per 100,000 of the population, and percentage of total deaths of the decedents from cancer, by periods of five years, from 1856 to 1895, inclusive, and for 1897:

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Decedents from Cancer, 42 Years, 1856–1897.

Years.	Parentage.				Sex.				Total Deaths.	Ratio per 100,000 of population.	Percentage of Deaths from Known Causes.
	American.		Foreign.		Males.		Females.				
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.			
1856-60..	56	39	25	24	20	17	61	47	81	33	1.70
1861-65..	80	53	30	26	31	25	79	56	110	42	1.99
1866-70..	100	58	31	23	36	25	95	58	131	42	2.37
1871-75..	128	58	78	38	54	27	152	69	206	49	2.46
1876-80..	161	67	140	49	84	33	217	80	301	57	3.06
1881-85..	211	84	148	47	92	34	267	90	359	63	3.24
1886-90..	209	81	190	52	110	37	289	88	399	64	3.15
1891-95..	222	80	205	48	117	35	310	36	427	60	2.92
1896.....	45	75	44	46	25	34	64	82	89	53	3.05
1897.....	41	67	60	64	31	41	70	87	101	65	3.62
42 years.	1,253	68	951	45	600	33	1,604	77	2,204	56	2.81

Full particulars for each year may be found in the report for 1888, page 55:

Cellulitis. There were no deaths from this cause in 1897.

Childbirth. There were 19 deaths from this cause in 1897, the same as in 1896; 7 deaths were from puerperal fever, and 5 from puerperal convulsions.

Cholera Infantum. The number of deaths from this cause in 1897 was 115, or 27 less than in the year preceding.

The following table shows the sex, parentage, ratio per 100,000 of population, and percentage of the decedents from cholera infantum for periods of five years, from 1856 to 1895, inclusive, and for 1896 and 1897.

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DECEDENTS FROM CHOLERA INFANTUM, 42 YEARS, 1856–1897.

YEARS.	Parentage.				Sex.				Total Deaths.	Ratio per 100,000 of population.	Percentage of Deaths from Known Causes.
	American.		Foreign.		Males.		Females.				
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of of population.	Deaths.	Ratio per 100,000 of population.			
1856-60..	94	65	163	157	138	118	119	91	257	104	5.41
1861-65..	92	61	187	164	139	113	140	99	279	105	5.05
1866-70..	124	71	200	148	175	121	149	91	324	105	5.85
1871-75..	217	99	358	175	278	137	297	134	575	135	6.86
1876-80..	181	75	292	103	243	96	230	84	473	90	4.81
1881-85..	218	87	339	107	294	109	263	88	557	98	5.03
1886-90..	279	108	350	95	324	108	305	93	629	101	4.97
1891-95..	241	87	442	105	365	109	318	88	683	98	4.67
1896.....	47	79	95	104	79	109	63	80	142	94	4.85
1897.....	48	79	67	72	58	78	57	71	115	75	4.12
42 years.	1,541	84	2,493	117	2,093	111	1,941	94	4,034	102	5.14

Until the year 1883 statistics of cholera infantum were given by single years, so that by reference to the report of that and succeeding years, the statistics of this disease may be found for each separate year.

Convulsions. There were 43 deaths from convulsions in 1897, which was 3 less than in the preceding year.

In addition to the above, convulsions were given as the secondary and immediate cause of death in 64 cases in connection with the following diseases: Indigestion 7, cholera infantum 6, entero-gastritis 5, bronchitis 5, malaria 5, meningitis 5, whooping cough 4, teething 3, pneumonia 3, nephritis 2, entero-colitis 2, enteritis 2, intestinal obstruction 2, premature birth, Bright's disease, uræmia, hydrocephalus, disease of the brain, diarrhœa, cyanosis, paresis, congestion of the lungs, rachitis, spina bifida and cancer, 1 each.

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Deaths from Croup in Providence, Forty-two Years, 1856–1897.

Sex, Parentage, Season; Whole Number and Ratio to Known Causes.

CROUP.	1856 to 1860	1861 to 1865	1866 to 1870	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Whole number...	123	162	99	35	27	21	29	56	65	40	38	43	29	49	32	35	33	28	32	39	27	33	31	16	34	28	6	25	24	13	1,252
Percentage	2.59	2.86	1.78	2.82	1.71	1.23	1.48	2.95	3.48	2.07	1.93	2.13	1.41	2.30	1.43	1.51	1.48	1.30	1.36	1.49	1.04	1.33	1.08	0.61	1.15	0.90	0.21	0.81	0.82	0.47	1.59
Sex:																															
Males	63	81	51	18	13	6	19	31	32	18	18	27	8	24	14	17	16	16	15	18	14	17	20	12	20	17	5	12	12	9	643
Females.....	60	81	48	17	14	15	10	25	33	22	20	16	21	25	18	18	17	12	17	21	13	16	11	4	14	11	1	13	12	4	609
Parentage:																															
American.....	52	63	45	20	6	6	15	19	27	14	18	22	7	17	14	13	13	13	13	14	14	10	12	4	19	6	2	12	10	8	508
Foreign.....	71	99	54	15	21	15	14	37	38	26	20	21	22	32	18	22	20	15	19	25	13	23	19	12	15	22	4	13	14	5	744
Season:																															
January	20	21	12	5	3	2	3	10	5	5	4	9	5	7	5	7	7	7	3	3	7	2	3	1	3	1	....	4	4	6	174
February	11	22	15	6	2	3	1	9	6	1	5	5	....	6	1	2	4	....	2	3	3	6	5	2	5	5	3	3	....	....	136
March.....	15	18	9	3	3	3	6	8	2	3	3	8	3	2	4	3	4	2	3	2	5	7	3	3	7	1	....	2	4	....	136
April....	12	17	5	2	2	3	2	...	1	5	6	4	1	2	4	1	2	2	1	3	3	3	3	....	1	4	....	2	2	2	95
May	10	12	6	1	2	1	....	2	....	4	....	2	....	3	1	3	2	3	2	2	....	5	2	....	1	....	....	1	2	1	68
June	6	12	1	....	....	2	....	1	....	1	...	2	....	2	...	2	...	1	1	3	1	....	3	....	1	1	....	2	1	....	43
July.....	8	4	4	5	....	1	....	....	2	....	1	....	....	2	1	...	3	1	1	1	1	2	1	1	....	1	1	1	....	1	43
August.....	4	3	1	1	....	....	1	..	....	....	1	....	....	1	....	....	1	....	1	1	..	....	1	1	1	1	....	....	1	....	20
September.....	4	9	6	1	....	1	3	5	9	2	....	....	3	4	....	3	1	1	3	3	2	2	....	....	1	....	....	1	2	....	66
October.....	11	14	11	4	2	....	2	3	15	3	2	4	2	6	5	5	4	3	4	4	1	2	5	5	4	8	1	5	2	....	137
November	10	11	13	7	4	2	6	12	9	8	8	7	11	7	8	5	2	....	7	7	3	2	2	3	6	4	1	4	2	3	174
December	12	19	16	....	9	3	5	6	16	8	8	2	4	7	3	4	3	8	4	7	1	2	3	....	4	2	....	....	4	....	160

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Debility. This was the cause assigned for 90 deaths in 1897, of which 73 were debility from premature birth. Of the 17 others, 12 were less than a year old.

Diarrhœal Diseases. The diseases classed under this head are included in the following table, showing the number, sex, parentage, and percentage from each cause in 1897:

	Males.	Females.	American.	Foreign.	Total.	Per cent.	Ratio per 100,000 of Population.
Acute Diarrhœa	5	8	6	7	13	.47	8.44
Chronic Diarrhœa	2	2	1	3	4	.14	2.60
Dysentery	5	13	3	15	18	.64	11.69
Cholera Infantum	59	57	48	67	115	4.12	74.67
Cholera Morbus	1	3	0	4	4	.14	2.60
Enteritis	8	12	7	13	20	.72	12.99
Enteritis, Gastro-	30	34	25	39	64	2.29	41.56
Enteritis, Colo-	13	11	6	18	24	.86	15.58
Enteritis, Muco	0	1	0	1	1	.04	0.65
Ileo-Colitis	1	1	0	2	2	.07	1.30
Totals	123	142	96	169	265	9.49	172.08

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Ratio of deaths from diarrhœal diseases per 100,000 of the population:

Parentage.				Sex.					
American.		Foreign.		Male.		Female.		Total.	
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
96	157	169	181	123	165	142	178	265	172

The following table shows the number of deaths from each diarrhœal disease, and the percentage from all these diseases, in different periods of time, from 1840 to 1897, inclusive:

	Cholera Infantum.	Cholera Morbus.	Diarrhœa.	Dysentery.	Enteritis.	Total.	Ratio to all known causes.
1840–1854	560	63	349	796	102	1,870	16.77
1855–1859	250	14	159	127	28	578	12.06
1860–1864	297	17	154	189	46	703	13.27
1865–1869	281	35	125	187	37	665	12.15
1870–1874	532	26	185	91	97	931	12.04
1875–1879	509	24	169	77	104	883	9.13
1880–1884	571	39	220	74	164	1,068	9.73
1885–1889	538	53	175	121	220	1,107	9.07
1890–1894	712	44	199	119	400	1,474	10.21
1895	148	9	23	13	103	296	9.69
1896	142	3	20	13	116	294	10.04
1897	115	4	17	18	111	265	9.49
58 years	4,655	321	1,795	1,825	1,523	10,119	10.96

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Deaths from Diphtheria in Providence, Forty Years, 1858–1897.

Sex, Parentage, Season; Whole Number and Ratio to Known Causes.

DIPHTHERIA.	1858 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Whole number	47	138	44	105	111	295	246	107	61	116	48	54	58	37	98	109	98	97	94	48	39	46	46	79	125	78	2,424
Percentage	1.66	2.50	0.79	1.25	5.95	15.27	12.47	5.30	2.96	5.45	2.15	2.33	2.60	1.71	4.17	4.18	3.77	3.90	3.29	1.83	1.32	1.47	1.60	2.58	4.27	2.79	3.16
Sex:																											
Males	23	66	21	52	53	146	136	46	32	65	20	20	30	18	46	53	48	44	51	24	20	24	26	45	72	41	1,222
Females	24	72	23	53	58	149	110	61	29	51	28	34	28	19	52	56	50	53	43	24	19	22	20	34	53	37	1,202
Parentage:																											
American	24	93	17	62	43	129	105	54	35	59	26	27	22	16	48	31	48	42	47	16	12	17	21	27	43	41	1,105
Foreign	23	45	27	43	68	166	141	53	26	57	22	27	36	21	50	78	50	55	47	32	27	29	25	52	82	37	1,319
Season:																											
January	....	13	6	12	5	14	41	10	7	7	7	6	3	6	4	11	9	10	17	4	1	2	5	6	10	8	224
February	2	13	5	12	....	13	19	7	6	7	3	3	5	3	7	8	6	7	15	4	5	2	4	1	6	7	170
March	3	16	1	12	4	20	21	9	4	8	4	4	6	1	5	2	14	10	7	6	4	4	6	2	17	10	200
April	1	7	4	7	5	18	25	5	6	15	3	....	1	1	8	7	5	5	9	3	3	5	4	2	11	6	166
May	....	10	1	4	5	31	11	6	4	11	1	6	4	2	6	10	6	14	7	6	4	3	6	4	12	9	183
June	2	6	....	15	3	21	10	10	3	2	2	8	1	....	8	10	4	4	4	4	3	4	7	7	8	7	153
July	4	5	3	7	2	9	6	5	6	7	5	2	2	4	2	4	8	8	6	3	3	4	....	4	9	4	122
August	4	4	1	1	2	12	13	7	5	11	1	3	1	3	8	9	3	5	8	2	1	2	....	6	4	5	121
September	4	11	4	6	8	39	13	8	5	12	1	8	2	3	14	15	4	9	6	4	2	4	2	9	9	1	203
October	11	13	6	10	32	48	32	18	5	14	1	8	5	3	15	13	12	8	7	6	4	7	3	10	16	4	311
November	10	21	4	10	31	37	32	13	5	16	7	2	13	3	7	12	9	6	3	5	4	3	5	13	16	11	298
December	6	19	9	9	14	33	23	9	5	6	13	4	15	8	14	8	18	11	5	1	5	6	4	15	7	6	273

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The following table illustrates the subject of season in connection with the three important causes of death, diphtheria, scarlet fever, and croup; showing the number and percentage of deaths in Providence, from each cause, in each month and quarter of the year:

Months.	Diphtheria, 1858–1897. Forty years.		Scarlet Fever, 1855–1897. Forty-three years.		Croup, 1856–1897. Forty-two years.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
January	224	9.24	340	12.02	174	13.90
February	170	7.01	297	10.50	136	10.86
March	200	8.25	260	9.19	136	10.86
1st quarter	594	24.50	897	31.71	446	35.62
April	166	6.85	263	9.29	95	7.59
May	183	7.55	252	8.91	68	5.43
June	153	6.31	208	7.35	43	3.44
2d quarter	502	20.71	723	25.55	206	16.46
July	122	5.03	150	5.30	43	3.43
August	121	4.99	123	4.35	20	1.60
September	203	8.38	146	5.16	66	5.27
3d quarter	446	18.40	419	14.81	129	10.30
October	311	12.83	221	7.81	137	10.94
November	298	12.30	242	8.56	174	13.90
December	273	11.26	327	11.56	160	12.78
4th quarter	882	36.39	790	27.93	471	37.62
Totals	2,424	100.00	2,829	100.00	1,252	100.00

Embolism. There were 4 deaths from embolism in 1897. Of these, 1 was cerebral, 1 of the pulmonary artery, 1 due to endarteritis, and 1 to phlebitis.

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Fever, Malarial. In 1869, two deaths, and in 1880, one death, were reported as due to malarial fever. These were counted in with typhoid fever, but since 1880 the record of malarial fevers has been kept separate from typhoid. Malarial disease originated in Providence in 1880 for the first time in fifty years.

The following table shows the deaths from all forms of malarial fevers since 1881. The deaths for single years are given in report for 1894, page 76:

YEARS.	Males.	Females.	American.	Foreign.	Whole Number.	Percentage.
1881-1885	18	15	15	18	33	0.29
1886-1890	54	55	30	79	109	0.84
1891	3	5	2	6	8	0.30
1892	5	6	4	7	11	0.37
1893	1	4	2	3	5	0.16
1894	3	3	1	5	6	0.21
1895	8	2	5	5	10	0.33
1896	10	6	6	10	16	0.54
1897	5	8	1	12	13	0.47
17 years	107	104	66	145	211	0.48

Fever, Typhoid. The number of deaths from this cause in 1897 was 24, which was 16 less than in 1896.

In the twenty-five years previous to 1881, deaths were occasionally reported from "fever" and "bilious fever," and about thirty in all as "typhus fever." There was also, in 1869, one death reported as "intermittent fever," and one "malarial fever," and one from malarial fever in 1880. These were all included with typhoid fever. The one death from typhus fever in 1893 was not included with typhoid.

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Deaths from Typhoid Fever in Providence, Forty-two Years, 1856–1897.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

TYPHOID FEVER.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Whole number	141	215	190	313	33	48	47	40	59	38	140	128	52	44	53	39	103	59	39	62	51	50	70	46	40	24	2,112
Percentage	2.97	3.89	3.43	3.74	1.78	2.22	2.38	1.98	2.52	1.78	6.27	5.51	2.53	2.04	2.25	1.49	3.95	2.37	1.36	2.37	1.73	1.60	2.44	1.51	1.37	.86	2.69
Sex:																											
Males	73	120	100	160	17	20	19	19	24	18	66	72	30	22	30	19	53	41	24	35	35	26	45	29	29	15	1,141
Females	68	95	90	153	16	28	28	21	28	20	74	56	22	22	23	20	50	18	15	27	16	24	25	17	11	9	971
Parentage:																											
American	85	131	104	166	19	22	27	26	24	17	54	54	17	18	21	16	32	21	15	21	17	15	21	21	13	8	985
Foreign	56	84	86	147	14	21	20	14	28	21	86	74	35	26	32	23	71	38	24	41	34	35	49	25	27	16	1,127
Season:																											
January	13	13	7	19	2	3	2	1	2	3	4	15	5	3	3	6	5	5	4	4	8	3	14	....	4	2	150
February	9	10	8	8	3	...	....	2	1	3	2	6	5	4	....	3	....	8	3	2	5	1	7	3	1	2	96
March	9	9	11	11	....	3	....	5	3	1	3	11	1	2	5	3	3	2	6	5	2	2	5	1	4	....	107
April	4	8	11	8	....	1	2	2	4	6	1	32	1	2	5	....	3	9	5	1	3	1	7	1	1	2	120
May	16	10	4	12	1	....	2	7	9	2	6	5	4	4	3	2	6	1	2	2	5	3	6	4	1	....	117
June	11	6	7	9	2	1	4	6	4	3	5	3	2	3	.. .	2	1	2	2	3	2	3	4	3	3	. ..	91
July	6	12	13	9	....	4	4	3	1	3	....	9	1	2	1	1	1	1	1	3	4	11	7	1	6	. ..	104
August	4	20	18	29	4	7	3	2	2	3	4	5	4	4	6	8	5	6	3	6	2	5	3	3	6	...	162
September	18	33	27	42	9	8	8	1	8	4	9	16	8	6	8	3	8	4	3	6	3	3	4	4	4	2	249
October	17	26	28	63	3	5	8	2	11	2	8	12	11	5	11	7	9	3	2	5	6	6	5	8	5	3	271
November	21	45	32	58	7	8	6	2	5	2	70	8	6	8	5	2	15	12	3	16	7	6	6	6	1	6	363
December	13	23	24	45	2	3	8	7	2	6	28	6	4	1	6	2	47	6	5	9	4	6	2	12	4	7	282
First quarter	31	32	26	38	5	6	2	8	6	7	9	32	11	9	8	12	8	15	13	11	15	6	26	4	9	4	358
Second quarter	31	24	22	29	3	2	8	15	17	11	12	40	7	9	8	4	10	12	9	6	10	7	17	8	5	2	328
Third quarter	28	65	58	80	13	19	15	6	11	10	13	30	13	12	15	12	14	11	7	15	9	19	14	8	16	2	515
Fourth quarter	51	94	84	166	12	16	22	11	18	10	106	26	21	14	22	11	71	21	10	30	17	18	13	26	10	16	916

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Deaths from Typhoid Fever in Providence, Forty-two Years, 1856–1897.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

TYPHOID FEVER.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
First four months.....	35	40	37	46	5	7	4	10	10	13	10	64	12	11	13	12	11	24	18	12	18	7	33	5	10	6	473
Second four months....	37	48	42	59	7	12	13	18	16	11	15	22	11	13	10	13	13	10	8	14	13	22	20	11	16	....	474
Third four months.....	69	127	111	208	21	24	30	12	26	14	115	42	29	20	30	14	79	25	13	36	20	21	17	30	14	18	1,165
AGE:																											
Under 1 year.....	1	1	3	2	....	....	....	....	1	....	...	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	10
1 and under 2.....	4	1	...	4	1	....	....	1	....	1	1	2	....	....	1	...	....	....	1	....	....	....	1	....	....	1	19
2 " " 5.....	9	7	10	9	1	2	2	...	....	1	3	4	1	2	....	....	3	1	...	...	1	...	3	....	....	1	60
5 " " 10.....	8	16	17	19	2	3	5	5	3	2	5	8	1	6	4	3	4	3	....	4	1	2	2	1	1	1	123
10 " " 15. ...	5	23	10	23	3	5	2	2	3	1	16	13	3	2	5	1	12	3	4	4	4	4	4	5	1	1	159
15 " " 20.....	21	31	30	54	5	5	9	4	9	5	28	23	7	2	9	5	18	10	4	7	8	5	15	...	8	3	325
20 " " 30.....	28	51	54	86	11	13	19	11	20	13	50	43	20	11	13	13	41	20	18	23	13	22	29	21	14	7	664
30 " " 40.....	21	36	22	45	2	3	1	9	7	6	22	19	11	11	7	8	14	13	5	12	6	8	9	8	5	2	312
40 " " 50.....	18	13	16	27	2	5	6	1	2	4	8	4	3	3	4	3	6	4	2	5	8	4	4	6	5	4	167
50 " " 60.....	13	17	10	28	3	4	1	1	4	2	5	8	1	3	6	3	4	1	3	2	6	3	1	3	3	1	136
60 " " 70.....	5	12	7	13	2	3	1	4	3	1	3	3	2	3	3	2	1	2	1	3	3	2	1	1	2	3	86
70 " " 80.....	7	7	10	1	....	....	....	2	..	1	1	....	2	1	1	....	....	2	1	1	1	....	1	1	1	...	41
80 " " 90. ..	1	1	1	1	1	....	1	....	....	1	....	....	1	....	....	1	....	....	....	....	....	..	....	....	....	.. .	9
90 and over.....	....	....	....	1	....	....	....	....	....	....	..	....	....	....	....	....	...	....	....	....	..	....	....	....	....	....	1

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The next table shows the number and percentage of decedents from typhoid fever, in each division of age, in the aggregate mortality for the year 1896, and also for the forty-two years from 1856 to 1897, inclusive:

PERIODS.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and over.	Total.
1896.															
Number...	....	1	1	1	1	3	7	2	4	1	3	....	....	....	24
Per cent...	....	4.17	4.17	4.17	4.17	12.50	29.16	8.33	16.66	4.17	12.50	....	....	....	100.00
1856–1896..															
Number...	10	19	60	123	159	325	664	312	167	136	86	41	9	1	2,112
Per cent...	0.47	0.90	2.84	5.82	7.53	15.39	31.44	14.77	7.91	6.44	4.07	1.94	0.42	0.05	100.00

The average age of decedents from typhoid fever for forty-two years was 28 years, 4 months, 21 days. For details see report for 1894, page 80:

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DECEDENTS FROM TYPHOID FEVER, 42 YEARS, 1856–1897.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of Population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio Per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.		
1856-60.....	85	59	56	54	73	62	68	52	141	56
1861-65.....	131	87	84	73	120	97	95	67	215	81
1866-70.....	104	59	86	63	100	69	90	54	190	61
1871-75.....	166	75	147	71	160	78	153	68	313	73
1876-80.....	118	48	97	34	99	39	116	42	215	40
1881-85.....	160	63	242	76	208	76	194	65	402	70
1886-90.....	105	40	188	51	167	55	126	38	293	46
1891-95.....	95	34	184	43	170	50	109	30	279	40
1896.....	13	21	27	29	29	40	11	14	40	26
1897.....	8	13	16	17	15	20	9	11	24	16
42 years..	985	54	1,127	53	1,141	60	971	47	2,112	53

Heart, Diseases of. The number of deaths from diseases of the heart in 1897 was 230, or 9 more than in 1896. So far as specified these deaths were as follows: Valvular, 74; endocarditis, 17; heart failure, 13; angina pectoris, 11; fatty heart, 8; dilitation, 7; hypertrophy, 6; paralysis, 4; neuralgia, 3; rheumatism, 3; myocarditis, 2; pericarditis, 1.

Gangrene. There were 2 deaths from gangrene in 1897: gangrene of the leg, 1; and 1 due to infiltration of urine.

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Decedents from Heart Disease, 42 Years, 1856–1897.

Years.	Parentage.				Sex.				Total Deaths.	Ratio per 100,000 of Population.	Percentage of Deaths from known causes.
	American.		Foreign.		Males.		Females.				
	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.			
1856–60..	104	72	39	37	62	53	81	62	143	57	3.01
1861–65..	169	112	68	59	116	94	121	86	237	89	4.29
1866–70..	164	94	98	72	131	91	131	79	262	84	4.73
1871–75..	277	126	184	89	218	106	243	109	461	108	5.50
1876–80..	271	112	208	73	239	94	240	87	479	91	4.87
1881–85..	377	149	352	111	232	122	397	133	729	128	6.59
1886–90..	456	176	490	133	443	148	503	153	946	151	7.47
1891–95..	454	165	587	140	491	146	550	152	1,041	149	7.12
1896.....	99	166	122	134	120	166	101	129	221	147	7.55
1897.....	98	161	132	142	118	159	112	140	230	149	8.25
42 years	2,469	135	2,280	107	2,270	120	2,479	120	4,749	120	6.06

For particulars for single years, see reports for 1882, page 85; for 1885, page 81; and for 1890, page 79.

Hemorrhage. The number of deaths due to this cause in 1897 was 17. Of these 7 were specified as pulmonary; 2, internal; 2, umbilical; 2, gastro-intestinal; 1, hepatic; 1, nasal; 1, uterine (polypi); 1, hæmophila.

Hernia. There were 6 deaths from strangulated hernia in 1897; of these 2 were umbilical, and 2 inguinal.

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Homicide. There were in 1897 seven deaths from homicide. Of these 1 was by bullet wound of the intestines, 1 by bullet wound of the abdomen, 1 by bullet wound of the stomach, 1 by gunshot wound of the neck, 1 by strangulation, and one by violence to the head.

Influenza. The following shows the number and the seasonal distribution of deaths from epidemic influenza for the last eight years:

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Nov.	Dec.	Total.
1890	54	8	1	1	0	0	0	0	0	0	64
1891	1	0	1	5	5	4	0	1	0	18	35
1892	34	11	3	5	2	1	0	0	1	2	59
1893	2	0	0	6	5	0	0	0	0	22	35
1894	57	13	3	1	3	0	1	0	0	0	78
1895	1	6	20	10	1	1	0	0	1	0	40
1896	0	1	2	0	1	0	0	0	0	0	4
1897	13	45	8	0	2	0	0	0	0	1	69
Total	162	84	38	28	19	6	1	1	2	43	384

The age distribution for the seven years was follows:

	Under 1 year.	1	2–5	5–10	10–15	15–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90	Total.
1890	2	2	....	....	4	9	12	5	6	7	11	4	2	64
1891	7	2	1	....	.....	.....	1	2	1	1	8	6	6	35
1892	10	1	1	1	2	.....	1	2	2	7	13	9	10	59
1893	2	1	1	....	1	1	2	.....	2	4	6	7	8	35
1894	2	2	2	1	1	2	6	3	7	10	19	16	7	78
1895	9	1	3	...	.....	.....	5	4	.....	4	4	6	4	40
1896	1	....	....	....	.....	1	.....	.....	.....	.....	1	.....	1	4
1897	8	....	....	....	3	1	2	4	5	16	9	15	6	69
Total	41	9	8	2	11	14	29	20	23	49	71	63	44	384

Injury at Birth. There were 4 deaths from this cause in 1897. Of these, 1 to injury to skull, 1 to compression, 1 to prolapse of cord, 1 to compression of the cord.

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Insanity. The number of deaths from this cause in 1897 was 17, including 8 from general paralysis. The other deaths were as follows: senile dementia 4, terminal insanity 1, paralytic dementia 1, paretic dementia 2, melancholia 1.

Of the 17 deaths from insanity, 6 were at the Butler Hospital. There were 11 deaths at the Butler Hospital from other causes.

Kidneys, Diseases of. The number of deaths from diseases of the kidneys in 1897 was 156, or 1 more than in the preceding year. Of these, 68 were due to Bright's disease, 74 to nephritis, 6 to uræmia, 2 to pyelo-nephritis, 1 to pyelitis, and 1 to congestion.

Liver, Diseases of. There were, in 1897, 29 deaths from diseases of the liver, 8 less than in 1896. Of these, 20 were due to cirrhosis of the liver, 2 to acute inflammation, 1 to hypertrophy, 1 to rupture, 1 to hydatids, 1 fatty liver, 1 amyloid liver.

Malformations. The number of deaths from this cause in 1897 was 30, or 8 more than in 1896. Of these, 14 were cyanosis, 4 were of the heart, 4 open foramen ovale, 3 spina-bifida, 1 imperforate anus, 1 of Eustachian valve, 1 double hare-lip and cleft palate.

Measles. There were 18 deaths from measles in 1897, or 1 less than in the preceding year.

This disease has always been very irregular in its appearance in this city, as may be seen from the following table, which shows the number of deaths caused by it in each year since 1856:

1856 1	1867 0	1878 50	1889 14
1857 2	1868 4	1879 0	1890 31
1858 40	1869 6	1880 3	1891 4
1859 0	1870 16	1881 25	1892 10
1860 0	1871 1	1882 4	1893 63
1861 6	1872 7	1883 8	1894 5
1862 1	1873 28	1884 7	1895 40
1863 16	1874 4	1885 8	1896 19
1864 7	1875 0	1886 7	1897 18
1865 7	1876 0	1887 90	—
1866 9	1877 2	1888 2	42 years 565

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Meningitis, Cerebro-Spinal. The first deaths reported from this cause in Providence were in 1864; since that date the number of deaths from it each year have been as follows:

1864	2	1876	4	1888	5
1865	2	1877	7	1889	3
1866	1	1878	7	1890	3
1867	0	1879	7	1891	5
1868	1	1880	4	1892	9
1869	0	1881	11	1893	8
1870	0	1882	14	1894	7
1871	12	1883	15	1895	7
1872	10	1884	6	1896	7
1873	39	1885	3	1897	7
1874	10	1886	2		—
1875	6	1887	7	34 years	231

The number of decedents from cerebro-spinal meningitis, in each division of age, and according to sex and parentage, are given in the following table for the 34 years, 1864 to 1897:

Ages.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	Males.	Females.	American.	Foreign.	Total.
No.	33	17	39	40	21	25	22	19	13	2	1	1	124	107	112	119	231

Of the 231 decedents, 149, or 64.50 per cent. were less than 15 years old.

Old Age. There were 66 deaths in 1897 ascribed to this cause, 17 less than in 1896; 8 of the decedents were over 90 years of age.

In the 42 years, 1856–1897, the number of decedents of 70 years and over was 8,959, or 11.85 per cent. of all the decedents from known causes; 5,960 of American and 2,999 of foreign parentage.

Paralysis. The number of deaths from this cause in 1897 was 22, 1 less than in 1896. Of these, 6 were hemiplegia, 2 paralysis agitans, 1 shaking palsy, 1 paraplegia, and 1 progressive paralysis.

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The following table shows the number of deaths and ratio per 100,000 of the population by periods of five years from 1856 to 1895 and in 1896 and in 1897 of paralysis and apoplexy and of the two diseases combined:

YEARS.	PARALYSIS.		APOPLEXY.		PARALYSIS AND APOPLEXY.	
	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.
1856–1860	31	12	87	33	118	47
1861–1865	58	21	86	32	144	54
1866–1870	90	29	134	43	224	72
1871–1875	127	29	177	42	304	71
1876–1880	132	25	240	47	372	70
1881–1885	157	27	394	68	551	97
1886–1890	137	21	491	79	628	100
1890–1895	121	17	576	68	697	86
1896	21	13	109	72	130	85
1897	22	14	149	97	171	111
42 years	896	22	2,443	62	3,339	84

The sex and parentage of the decedents from these two causes combined were as follows:

	Male.	Female.	American Parentage.	Foreign Parentage.
1897	70	101	81	90
42 years, 1856–1897	1,563	1,776	2,001	1,338

Peritonitis. There were 20 deaths from this cause in 1897. The explanations given were that 2 were due to perforation of the intestines, 2 to intestinal obstruction, 1 to acute nephritis, 1 to pelvic abscess, 1 to disease of the gall-bladder, 1 to malignant disease

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in pelvis (probably), 1 to operation, 1 was traumatic, 2 others were described as general, 2 as subacute, and 1 as pelvic.

Phthisis, or Consumption. There were 321 deaths from phthisis in 1897, or 11.50 per cent. of all deaths from known causes; or 208.44 per each 100,000 living.

During the 15 years, 1840 to 1854, the average annual rate of mortality from phthisis was one death in each 209.9 inhabitants, or 476 to each 100,000. During the forty-two years, 1856 to 1897, the deaths from phthisis were as follows:

DECEDENTS FROM PHTHISIS, FORTY-TWO YEARS, 1856–1897.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of Population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Podulation.		
856-1860	525	364	405	391	379	324	551	421	930	375
1861-1865	496	329	490	420	477	387	498	352	975	368
1866-1870	532	306	520	384	490	339	562	342	1,052	340
1871-1875	553	252	682	332	568	279	667	301	1,235	290
1876-1880	570	235	928	322	676	267	822	301	1,498	285
1881-1885	573	227	1,177	371	824	304	926	310	1,750	307
1886-1890	529	204	1,206	329	863	288	872	266	1,735	277
1891-1895	486	176	1,202	286	846	253	842	233	1,688	243
1896	91	153	259	285	180	249	170	218	350	233
1897	92	151	229	216	173	233	148	185	321	208
42 years	4,446	242	7,068	337	5,476	290	6,058	292	11,534	291

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Deaths from Phthisis in Providence, Forty-two Years, 1856–1897.

Sex, Parentage. Season, Age, Whole Number and Ratio to Known Causes.

PHTHISIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876 to 1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Whole number.	930	975	1,052	1,235	1,498	344	351	364	344	347	368	314	359	309	385	344	333	325	331	355	350	321	11,534
Percentage.....	19.57	17.64	18.70	14.74	15.23	16.15	15.72	15.68	15.44	16.07	15.66	12.05	13.80	12.41	13.46	13.15	11.29	10.40	11.53	11.63	11.96	11.50	14.72
Sex:																							
Males.....	379	477	490	568	676	157	166	166	159	176	179	141	183	155	205	188	165	162	164	167	180	173	5,476
Females.	551	498	562	667	822	187	185	198	185	171	189	173	176	154	180	156	168	163	167	188	170	148	6,058
Parentage:																							
American.....	525	495	532	553	570	116	113	107	113	124	115	98	98	104	114	98	93	100	86	109	91	92	4,448
Foreign..	505	480	520	682	928	228	238	257	231	223	253	216	261	205	271	246	240	225	245	246	259	229	7,088
Season:																							
January.....	92	77	93	116	128	41	34	30	33	44	38	29	37	36	46	23	34	26	32	40	28	35	1,092
February	77	81	85	110	107	22	33	25	26	24	30	29	32	20	27	39	28	27	28	30	31	34	945
March.	91	84	93	101	137	27	35	33	22	29	36	29	29	22	41	35	22	41	32	40	34	22	1,035
April..	68	86	94	117	123	35	35	40	38	28	45	30	23	26	27	24	35	32	22	27	29	26	1,010
May	77	61	78	101	141	33	29	40	40	22	32	28	32	24	43	29	26	28	33	32	32	29	990
June	70	80	98	99	108	28	30	26	25	36	37	20	32	26	24	35	29	20	24	25	23	21	916
July	64	84	78	98	122	26	25	28	20	33	29	16	28	26	32	18	25	29	27	26	31	22	887
August.....	60	71	89	84	1 1	36	31	25	26	21	34	29	26	26	31	25	32	25	33	30	27	30	913
September	66	84	82	96	126	28	19	19	26	30	24	21	35	28	21	28	30	25	25	29	21	32	895
October.....	83	87	91	101	117	24	25	28	23	24	28	30	34	23	37	30	21	23	26	22	25	24	936
November	94	86	94	109	129	19	24	31	29	29	20	20	24	24	26	25	32	23	25	28	28	22	941
December.....	88	94	77	103	139	25	31	29	36	27	15	33	27	28	30	33	19	26	24	26	41	24	975

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Deaths from Phthisis in Providence, Forty-two Years, 1856–1897.—Concluded.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

PHTHISIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876 to 1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
First quarter	260	242	271	327	372	90	102	88	81	97	104	87	98	78	114	97	84	94	92	110	93	91	3,072
Second quarter	215	227	270	317	372	96	94	10	103	86	114	78	87	76	94	88	90	80	79	84	84	76	2,916
Third quarter	190	239	249	278	369	90	75	72	72	84	87	66	89	80	84	71	87	79	85	85	79	84	2,694
Fourth quarter	265	267	262	313	385	68	80	98	88	80	63	83	85	75	93	88	72	72	75	76	94	70	2,852
First four months	328	328	365	444	495	125	137	128	119	125	149	117	121	104	141	121	119	126	114	137	132	117	4,082
Second four "	271	296	343	382	492	123	115	119	111	112	132	93	118	102	130	107	112	102	117	113	113	102	3,705
Third four "	331	351	344	409	511	96	99	117	114	110	87	104	110	103	114	116	102	97	100	106	115	102	3,747
AGE:																							
Under 1 year	13	14	16	11	14	4	2	8	7	6	1	4	5	7	7	8	4	4	1	5	9	5	155
1 and under 2	12	14	12	13	16	4	2	3	3	2	5	1	1	2	5	3	2	1	2	7	1	1	112
2 " " 5	9	20	10	11	11	2	2	1	3	4	3	2	4	2	3	3	1	3	3	4	9	....	110
5 " " 10	8	13	12	9	16	2	5	2	1	3	3	4	3	2	2	4	3	3	2	7	1	2	107
10 " " 15	20	20	22	21	34	7	1	6	8	10	3	10	8	3	7	6	7	5	4	5	1	5	213
15 " " 20	90	92	94	102	134	31	36	25	29	41	30	35	28	42	29	34	33	29	29	34	31	35	1 063
20 " " 30	264	265	344	387	509	125	116	121	114	113	123	95	119	86	118	108	96	99	118	127	126	105	3,678
30 " " 40	202	233	204	263	298	75	84	78	78	77	90	70	81	75	98	81	85	86	71	82	87	79	2,577
40 " " 50	115	153	151	184	191	34	43	49	51	38	49	38	55	37	45	50	49	49	54	40	35	42	1,552
50 " " 60	98	72	101	117	129	33	23	38	21	30	30	25	25	22	43	28	36	29	28	27	23	24	1,003
60 " " 70	62	60	64	85	104	16	25	25	17	12	22	19	21	22	17	13	12	10	14	7	20	18	685
70 " " 80	31	18	21	29	40	9	10	7	10	10	7	7	6	5	7	5	4	6	4	8	5	5	254
80 " " 90	6	1	1	3	2	2	2	1	2	1	2	4	3	3	4	1	1	1	1	2	2	.....	45
90 and over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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Pneumonia. There were 234 deaths from pneumonia in 1897, and 9 from congestion of the lungs; total, 243, which was 3 less than in the preceding year. These deaths were as follows in the different seasons of the year:

	Number.	Per cent.		Number.	Per cent.
First quarter	105	43.21	Third quarter	25	10.29
Second quarter	44	18.11	Fourth quarter	69	28.39

The following table gives the statistics concerning the decedents from pnemonia and congestion of the lungs, in the five years, 1856–1860; the five years, 1861–1865; the five years, 1866–1870; and in each year since 1870. See the report for 1883, pages 89 to 93 inclusive, for fuller particulars and comments:

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Pneumonia and Congestion of the Lungs in Providence, Forty-two Years, 1856–1897.

Sex, Parentage, Season, Age, Whole Number, and Ratio to Known Causes.

Pneumonia and Congestion of the Lungs.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Whole number	341	355	407	653	163	98	140	159	193	174	176	204	172	227	210	224	221	204	244	251	315	389	269	288	246	243	6,566
Percentage	7.18	6.42	7.24	7.79	8.80	5.07	7.10	7.88	9.36	8.17	7.88	8.79	7.72	10.51	8.93	8.66	8.48	8.19	8.53	9.59	10.68	12.45	9.37	9.43	8.40	8.71	8.28
Sex:																											
Males	192	190	214	334	79	44	63	76	94	85	98	109	78	113	103	123	115	100	130	124	160	199	153	151	150	131	3,408
Females	149	165	193	319	84	54	77	83	99	89	78	95	94	114	107	101	106	104	114	127	155	190	116	137	96	112	3,158
Parentage:																											
American	184	193	205	334	61	47	70	73	86	88	66	89	86	124	93	88	90	77	88	101	103	142	111	92	85	85	2,861
Foreign	157	162	202	319	102	51	70	86	107	86	110	115	86	103	117	136	131	127	156	150	212	247	158	196	161	158	3,705
Season:																											
January	45	40	59	79	15	15	21	38	17	27	17	29	17	24	24	30	39	29	54	34	88	45	65	24	37	32	944
February	36	46	46	98	16	13	17	18	19	28	18	17	29	24	23	32	30	30	23	26	35	46	37	40	31	52	830
March	41	50	51	76	14	11	18	18	26	15	21	28	16	40	34	40	43	38	31	16	35	53	32	57	30	21	855
April	35	35	62	77	19	10	16	18	31	24	28	34	29	38	21	28	33	24	23	27	31	54	36	34	36	20	823
May	38	32	36	68	19	8	7	11	24	13	19	23	20	32	25	18	13	17	19	19	29	55	18	19	23	20	625
June	24	23	14	29	5	4	7	7	19	11	14	18	8	12	6	10	9	9	13	8	11	17	4	5	24	4	315
July	7	16	18	22	6	3	6	1	4	2	6	5	5	1	8	6	4	6	10	8	4	16	10	8	8	6	196
August	14	6	11	17	7	1	6	4	8	6	1	2	....	7	5	2	4	6	5	6	6	6	6	11	5	7	159
September	13	12	17	29	9	6	5	6	2	2	9	8	2	8	7	10	5	5	7	4	7	12	13	10	7	12	227
October	19	16	19	34	14	10	7	8	16	15	4	10	10	9	21	12	13	8	15	12	19	18	9	20	8	19	365
November	37	40	28	52	19	7	13	9	11	15	19	10	18	13	17	15	11	9	13	20	28	15	17	21	23	19	499
December	32	39	46	72	20	10	17	21	16	16	20	20	18	19	19	21	17	23	31	71	22	52	22	39	14	31	728

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Pneumonia and Congestion of the Lungs in Providence, Forty-two Years, 1856–1897.—Concluded.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

Pneumonia and Congestion of the Lungs.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Age:																											
Under 1 year.....	85	88	87	174	43	21	33	33	32	26	18	25	40	30	27	29	17	29	36	29	43	51	41	46	48	47	1,178
1 and under 2.....	54	31	40	54	13	12	14	16	15	20	10	16	13	15	9	17	11	9	11	12	15	24	21	17	13	19	501
2 " " 5	31	29	39	43	14	10	13	12	9	13	9	5	11	17	12	18	14	11	15	12	13	22	15	13	19	13	432
5 " " 10.....	13	10	15	14	....	2	2	7	8	1	2	6	4	4	7	3	5	4	3	4	2	11	7	4	7	7	152
10 " " 15.....	5	4	6	11	3	....	1	....	2	2	3	....	1	3	2	2	....	....	2	3	1	3	2	3	4	6	69
15 " " 20	5	2	4	14	1	3	4	2	6	1	7	5	3	5	5	3	5	6	6	4	3	4	3	7	7	8	123
20 " " 30.....	20	28	27	36	12	6	4	6	5	7	11	14	14	11	18	11	19	10	21	17	21	21	22	26	11	14	412
30 " " 40.....	28	37	23	51	7	7	7	9	14	14	26	21	15	19	22	26	32	19	26	24	38	41	29	32	25	21	603
40 " " 50.....	26	31	33	55	19	10	12	17	22	14	27	34	9	31	26	23	34	24	27	28	39	51	27	41	22	25	697
50 " " 60	26	32	41	54	14	9	8	20	26	28	20	30	9	25	24	26	28	31	29	35	35	66	36	34	36	20	742
60 " " 70.....	24	31	46	68	23	6	18	15	26	23	17	28	18	30	26	31	27	35	35	40	60	52	28	34	24	22	787
70 " " 80	19	29	30	60	14	7	20	17	23	15	22	21	22	24	23	24	18	17	21	31	33	26	27	21	23	28	615
80 " " 90.....	5	11	15	17	....	4	4	5	4	9	3	9	11	11	8	9	11	8	12	11	11	17	10	10	7	9	231
90 and over	...	2	1	2	....	1	....	...	1	1	1	....	2	2	1	2	....	1	....	1	1	....	1	....	....	4	24
First quarter.....	122	136	156	253	45	39	56	74	62	70	56	74	62	88	81	102	112	97	108	76	158	144	134	121	98	105	2,629
Second quarter	97	90	112	174	43	22	30	36	74	48	61	75	57	82	52	56	55	50	55	54	71	126	58	58	83	44	1,763
Third quarter.....	34	31	46	68	22	10	17	11	14	10	16	15	7	16	20	18	13	17	22	18	17	34	29	29	20	25	582
Fourth quarter	88	95	93	158	53	27	37	38	43	46	43	40	46	41	57	48	41	40	59	103	69	85	48	80	45	69	1,592
First four months.....	157	171	218	330	64	49	72	92	93	94	84	108	91	121	102	130	145	121	131	103	189	198	170	155	134	125	3,452
Second four months....	83	77	79	136	37	16	26	23	55	33	40	48	33	52	44	36	30	38	47	41	50	91	38	43	60	37	1,285
Third four months.....	101	107	110	187	62	33	42	44	45	48	52	48	48	49	64	58	46	45	66	107	76	97	61	90	52	81	1,829

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PNEUMONIA AND CONGESTION OF THE LUNGS, 42 YEARS, 1856–1897.

YEARS.	Parentage.				Sex.				Total Deaths.	Ratio per 100,000 of population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856–1860...	184	127	157	151	192	164	149	114	341	137
1861–1865...	193	128	162	141	190	154	165	116	355	134
1866–1870...	205	118	202	149	214	148	193	117	407	131
1871–1875...	334	152	319	155	334	164	319	144	653	153
1876–1880...	337	139	416	146	356	140	397	145	753	143
1881–1885...	453	180	500	157	483	178	470	157	953	167
1886–1890...	436	168	667	181	571	191	532	162	1,103	176
1891–1895...	549	199	963	229	787	235	725	201	1,512	217
1896.....	85	143	161	177	150	207	96	123	246	164
1897.....	85	140	158	170	131	176	112	140	243	158
42 years..	2,861	155	3,705	174	3,408	180	3,158	152	6,566	166

Pyaemia. There were 5 deaths from pyaemia in 1897, of which 1 was due to abscess of the scalp, 1 to recto-vaginal fistula, and 1 to cerebral embolism.

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Deaths from Scarlet Fever in Providence, Forty-three Years, 1855–1897.

Sex, Parentage, Season, Whole Number, and Ratio to Known Causes.

SCARLET FEVER.	1855.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	Totals.
Whole number...	42	310	324	236	533	35	12	57	252	243	45	18	16	57	38	30	153	80	25	8	17	37	97	56	64	33	11	2,829
Percentage.....	4.37	6.52	5.86	4.26	6.36	1.87	0.62	2.89	12.49	11.77	2.11	0.81	0.69	2.56	1.76	1.28	5.78	3.08	1.01	0.28	0.65	1.26	3.10	1.95	2.09	1.13	0.39	3.56
SEX:																												
Males.....	22	153	154	106	263	16	4	25	135	122	27	12	7	23	13	11	66	41	12	4	8	22	47	25	30	16	6	1,370
Females	20	157	170	130	270	19	8	32	117	121	18	6	9	34	25	19	87	39	13	4	9	15	50	31	34	17	5	1,459
PARENTAGE:																												
American....	19	172	132	90	205	14	3	17	101	88	17	7	6	27	12	9	57	37	5	2	7	14	40	22	24	9	4	1,140
Foreign	23	138	192	146	328	21	9	40	151	155	28	11	10	30	26	21	96	43	20	6	10	23	57	34	40	24	7	1,689
SEASON:																												
January	....	48	27	51	59	4	3	2	13	50	5	2	2	3	5	4	8	18	4	....	1	4	8	8	8	3	....	310
February	....	39	31	28	66	6	...	2	12	36	8	3	....	....	8	3	3	19	....	1	...	5	6	6	7	8	....	297
March	1	44	29	26	42	6	..	2	9	29	4	1	....	1	8	....	4	9	3	1	5	6	6	4	12	6	2	260
April	5	46	25	17	46	....	2	1	9	32	7	1	2	2	4	1	1	13	8	1	2	1	9	8	16	1	3	263
May.....	4	38	36	13	49	4	1	2	10	29	8	3	2	6	....	1	2	8	3	2	....	4	12	8	6	1	....	252
June.....	2	25	34	12	58	5	....	5	4	15	4	2	....	4	1	2	5	4	2	....	1	3	14	....	4	1	1	208
July	1	18	25	7	29	....	...	11	5	13	4	....	....	2	2	2	8	1	4	...	1	1	12	2	2	....	....	150
August.....	2	7	12	16	23	....	....	5	10	12	1	2	....	2	1	4	10	1	....	....	....	2	6	2	4	1	....	123
September ...	...	8	11	15	32	1	....	2	19	7	....	....	....	5	2	1	17	1	....	....	1	...	14	7	....	2	1	146
October... ..	2	9	15	12	32	7	....	15	36	8	1	...	2	11	3	3	47	2	1	....	2	....	2	5	2	1	3	221
November ...	13	9	38	12	40	1	4	2	54	7	2	1	4	11	1	4	22	3	....	2	....	4	1	3	2	2	....	242
December....	12	19	41	27	57	1	2	8	71	5	1	3	4	10	3	5	26	1	....	1	4	7	7	3	1	7	1	327

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Septicaemia. There were 6 deaths from this cause in 1897. Of these, 1 was said to be caused by ulcerated umbilicus, 1 to ulceration of the gum, and 1 to chronic abscess.

Small-pox. The following table gives the deaths from small-pox for 42 years, 1856–1897:

Year.	Sex. Males.	Sex. Females.	Parentage. American.	Parentage. Foreign.	Whole Number.	Per-centage.
1856	7	2	5	4	9	0.87
1857						
1858						
1859	2	3	5		5	0.57
1860	4	1	3	2	5	0.52
1861						
1862	2	2	1	3	4	0.45
1863						
1864	7		3	4	7	0.56
1865	9	2	8	3	11	0.93
1866						
1867	1		1		1	0.11
1868	1		1		1	0.09
1869	3		3		3	0.24
1870		2		2	2	0.16
1871		3	1	2	3	0.24
1872	9	4	9	4	13	0.82
1873	12	2	8	6	14	0.82
1874						
1875	1			1	1	0.05
1876						
1877						
1878						
1879						
1880						
1881						
1882						
1883	1		1		1	0 04
1884						
1885						
1886						
1887						
1888						
1889						
1890						
1891						
1892	2	1		3	3	0.10
1893						
1894	2		1	1	2	0.07
1895						
1896						
1897						
42 years	63	22	50	35	85	

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Spinal Cord, Diseases of. There were in 1897 14 deaths due to this cause, specified as follows: 4 were sclerosis, 1 multiple sclerosis, 2 meningitis, 1 myelitis, 1 transverse myelitis, 1 poliomyelitis, 1 paresis, 1 locomotor ataxia, and 1 atrophy, due to injury.

Stomach, Diseases of. The number of deaths from diseases of the stomach in 1897 was 22, of which 18 were gastritis, 2 ulcer, 1 atrophy, and 1 atony.

Suicide. There were 16 deaths by suicide in 1897, or 3 less than in 1896. Death was caused as follows: shooting, 4; hanging, 3; cutting throat, 2; illuminating gas, 2; drowning, 1; opium 1; arsenic, 1; Paris green, 1; and poison, 1.

Surgical Operation. There was one death from this cause in 1897.

Syphilis. The following table gives the deaths from syphilis and the number of these in which the disease was specified as congenital for each year from 1856 to 1897:

	Total	Congenital.		Total	Congenital.		Total	Congenital.		Total	Congenital.
1856	2	0	1867	4	4	1878	1	1	1889	8	6
1857	0	0	1868	3	3	1879	7	7	1890	6	4
1858	3	3	1869	0	0	1880	5	2	1891	5	3
1859	3	3	1870	5	4	1881	3	1	1892	8	5
1860	0	0	1871	3	2	1882	9	7	1893	8	3
1861	1	1	1872	7	2	1883	10	7	1894	5	3
1862	2	1	1873	3	2	1884	6	4	1895	5	2
1863	0	0	1874	3	2	1885	4	2	1896	6	3
1864	2	2	1875	8	4	1886	7	4	1897	10	9
1865	2	0	1876	7	3	1887	5	2		—	—
1866	4	3	1877	8	3	1888	5	4			
Totals 42 years										193	121

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Teething was given as the cause of 8 deaths in 1897, or 4 less than in 1896. "Teething" includes only those cases in which no other or contributing cause is given.

Thrombosis. There were 2 deaths from this cause in 1897. Of these one was in the popliteal artery, and the other in the brain.

Tetanus. There were 8 deaths from this cause in 1897. Of these 2 were neonatorum, 1 trismus, 1 from stepping on rusty nail, 1 from machinery accident to hand, 1 from fall, and 1 from being run over.

Tuberculosis was the cause of 33 deaths in 1897, or 10 less than in 1896. The name "tuberculosis" was first used in these reports in 1867, and the number of deaths from this cause in 31 years, from 1867 to 1897, is 672.

If under tuberculosis should also be included tubercular meningitis, phthisis, and hydrocepalus, it is probable that some few cases of non-tuberculous disease might be included, but as a certain number of cases of true tuberculosis are undoubtedly reported as adenitis, disease of bone, peritonitis, etc., it is probable that this total would be below rather than above the actual number of deaths from tubercular disease. The total of these tubercular diseases for 1897 was 386, or 13.84 per cent. of deaths from known causes.

Tumors. The number of deaths from tumors in 1897 was 21, or 9 less than in 1896. These were specified as follows: ovarian, 4; uterine fibroid, 3; multiple sarcoma, 2; lympho-sarcoma, 1; pelvic hæmatocele, 1; intra-ligamentum, 1; of the lung, 1; abdominal, 1; inguinal, 1; of the liver, 1; of the cheek and jaw, 1; of the uterus, 1; of the pancreas 1, papilloma of bladder.

Ulcer. There was one death from ulcer of the leg in 1897.

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Whooping Cough. Whooping cough caused 16 deaths in 1897. The deaths in previous years since 1856 are shown in the following table:

1856.....10	1867..... 2	1878..... 43	1889.....44
1857..... 2	1868.....13	1879.....15	1890.....30
1858..... 7	1869.....16	1880.....11	1891.....53
1859.....22	1870.....24	1881.....40	1892..... 8
1860.....19	1871.....10	1882.....40	1893.....11
1861.....25	1872.....10	1883..... 4	1894..... 53
1862..... ... 3	1873.....18	1884.....28	1895.....27
1863..... 6	1874 33	1885.....24	1896.... 24
1864.....10	1875..... 8	1886.....23	1897.....16
1865.....31	1876.....35	1887... 12	—
1866..... 8	1877..... 16	1888..... 28	
42 years....			862

Unknown. There were 16 deaths in 1897 for which no cause could be given. This was 0.57 per cent. of the 2,805 deaths for the year 1897.

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MARRIAGES.

The number of marriages reported in Providence for 1897 was 1,458, which was 121 less than in 1896.

The following table shows the number of marriages in each month and quarter of 1897, and each of the six years preceding; also the aggregate and average numbers for each month and quarter of the forty-there years, 1855 to 1897:

TABLE VIII. MARRIAGES. *Season.*

MONTHS.	1897.	1896.	1895.	1894.	1893.	1892.	1891.	43 years, 1855–1897.	43 Years' Average.
January	125	143	107	140	154	127	120	3,953	92
February	98	137	138	85	123	127	91	3,469	80
March	73	57	55	69	52	82	63	2,183	51
1st quarter	296	337	300	294	329	336	274	9,595	223
April	103	188	137	152	162	126	173	3,902	91
May	102	88	95	86	119	109	92	3,583	83
June	210	195	193	196	195	195	175	4,588	107
2d quarter	417	471	425	434	476	430	440	12,073	281
July	91	115	95	97	125	96	99	3,218	75
August	102	110	109	98	124	118	114	3,089	72
September	137	147	168	149	135	149	152	4,137	96
3d quarter	330	372	372	344	384	363	365	10,444	243
October	148	142	195	160	158	183	163	4,759	111
November	166	167	217	160	181	169	155	5,071	118
December	101	90	104	103	78	111	91	3,325	77
4th quarter	415	399	516	423	417	463	409	13,155	306
Yearly totals	1,458	1,579	1,613	1,495	1,606	1,592	1,488	45,267	1,053

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The population of the city was estimated at 154,000, and the number of persons married during the year was 2,916, a ratio of one in 52.81, or 18.94 in each 1,000 of the population. The ratio of marriages was therefore 9.47 in each 1,000.

Season. The following figures show the number and per cent. of marriages in each quarter of 1897, and of the forty-three years, 1855 to 1897:

	1897.		1855–1887.	
	Marriages.	Per cent.	Marriages.	Per cent.
Jan.-March	296	20.30	9,595	21.20
April-June	417	28.60	12,073	26.67
July-Sept	330	22.64	10,444	23.07
Oct.-Dec	415	28.46	13,155	29.06
Year	1,458	100.00	45,267	100.00

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Table IX. shows the birth-places of the persons married in 1897:

TABLE IX. MARRIAGES, 1897. *Nativity of the Parties.*

BIRTH-PLACES OF GROOMS.	BIRTH-PLACES OF BRIDES												Whole No. of Grooms.
	United States.	Ireland.	England, Scotland, and Wales.	Germany.	British America.	French Canada.	Portugal and Western Islands.	Sweden.	Norway.	Italy.	Russia and Poland.	Other Countries.	
United States	652	46	47	2	31	19	...	3	..	1	1	1	803
Ireland	40	112	6	....	2	....	....	..	..	.	.	..	160
England, Scotland, and Wales	49	15	53	....	2	....	....	2	..	..	..	3	124
Germany	12	....	2	16	....	....	....	..	..	..	..	1	31
British America	22	6	5	....	15	1	....	..	..	..	..	..	49
French Canada	10	1	...	....	2	26	....	..	..	..	..	..	39
Portugal and Western Islands	4	....	...	....	1	....	29	1	..	..	..	..	35
Sweden	3	1	...	....	....	....	....	49	1	..	..	1	55
Norway	1	...	....	....	....	....	....	2	4	..	..	..	7
Italy	4	1	1	....	....	....	...	1	..	84	..	..	91
Russia and Poland	3	....	1	....	1	....	....	..	1	..	22	1	29
Other Countries	12	3	4	1	2	....	2	1	..	..	3	7	35
Whole Number of Brides	812	185	119	19	56	46	31	59	6	85	26	14	1,458

Bride and groom born in the same country. There were 652 marriages, in 1897, where both bride and groom were natives of the United States; 44.72 per cent. of all the marriages during the year. In 112 marriages, or 7.68 per cent., both parties were natives of Ireland.

Bride and groom born in different countries. The whole number of grooms born in the United States was 803; of these, 151, or 18.80 per cent., married foreign women. Of the 812 brides born in the United States, 160, or 19.70 per cent., married men of foreign

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birth. Of the 160 grooms born in Ireland, 48, or 30.00 per cent., married women of some other country; of the 185 brides born in Ireland, 73, or 39.46 per cent., married natives of some other country than their own.

There were 35 grooms born in countries not named in the table. Their nativity was as follows: Austria, 8; Holland, 4: Denmark, China, and West Indies, 3 each; Armenia and Belgium, 2 each; and one each in Switzerland, Finland, France, Alsace, Isle of Man, Isle of Wight, Guernsey Island, India, Africa, and "at sea."

There were 14 brides born in countries not named in the table. Their nativity was as follows: Austria, 4; Finland, 2; and one each in Belgium, France, Holland, Denmark, Switzerland, India, Armenia, and West Indies.

The following table shows the number and percentage of American, foreign, and mixed marriages in the forty-three years, from 1855 to 1897; the statistics are given for periods of five years. The same statistics for each one of the twenty-eight years, 1855-1882, will be found on page 25 of the Report for 1882:

	American.		Foreign.		Mixed.	
Years.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
1855-1859	1,660	54.25	1,090	35.62	310	10.13
1860-1864	1,697	55.40	989	32.29	377	12.31
1865-1869	2,483	58.23	1,216	29.11	529	12.66
1870-1874	2,966	55.84	1,508	28.39	838	15.77
1875-1879	2,932	57.85	1,256	24.78	880	17.37
1880-1884	3,254	54.90	1,449	24.45	1,224	20.65
1885-1889	3,166	49.53	1,890	29.57	1,336	20.90
1890-1894	3,413	44.84	2,582	33.93	1,616	21.23
1895	721	44.70	533	33.04	359	22.26
1896	699	44.27	536	33.94	344	21.79
1897	652	44.72	495	33.95	311	21.33
43 years	23,593	52.13	13,544	29.93	8,124	17.95

The whole number of marriages given in the preceding table for forty-three years is 45,261, while in table VIII. it is 45,267; this

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is owing to imperfect statistics in the early records. See Report for 1879, page 22.

Marriages of colored persons. There were 60 marriages in 1897 in which both parties were colored; 3 where the man was colored and the woman white; in all, 63, or 2 less than in 1896.

The number of marriages where one of the parties was colored and the other white has been as follows in the last thirteen years: 1881, 5; 1882, 5; 1883, 1; 1884, 3; 1885, 6; 1886, 4; 1887, 7; 1888, 4; 1889, 4; 1890, 2; 1891, 5; 1892, 3; 1893, 3; 1894, 1; 1895, 3; 1896, 3; 1897, 3.

The aggregate and average age of the colored persons married in 1897 were as follows:

63 males	Aggregate age, 1,932 years	Average age, 30.66 years.
60 females	Aggregate age, 1,666 years	Average age, 27.77 years.

The difference in the number of males and females is owing to the fact of the mixed marriages just alluded to. The same difference of course will be observed in the aggregate number given below for the period of forty-two years, 1856 to 1897 inclusive. The whole number of marriages of colored persons during that time, either one or both parties being colored, was 1,915; the aggregate and average age of the parties were as follows:

1,909 males	Aggregate age, 57,509 years	Average age, 30.13 years.
1,857 females	Aggregate age, 49,161 years	Average age, 26.47 years.

Marriages of Chinese. There were three Chinese men married in 1897, all of them to white women born in the United States. The average age of the grooms was 30 years; of the brides, 23 years.

Table X. shows the number and percentage of brides and grooms in each division of age:

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TABLE X. MARRIAGES, 1897. *Ages of the Parties.*

AGES OF GROOMS.	AGES OF BRIDES.											Whole Number of Grooms.	Percentage of Grooms.
	Under 20 years.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.		
Under 20 years....	9	2	1	....	....	....	....	....	....	....	....	12	.82
20 to 25	116	296	56	4	2	....	....	....	1	....	....	475	32.58
25 to 30	49	232	181	38	10	....	....	....	....	....	....	510	34.98
30 to 35	7	61	85	35	16	2	1	....	....	....	....	207	14.20
35 to 40	2	20	34	25	20	2	2	....	....	....	....	105	7.20
40 to 45	.....	3	9	20	14	6	2	1	....	....	....	55	3.77
45 to 50	.....	4	8	8	10	5	3	....	1	....	....	39	2.68
50 to 55	.....	.....	3	5	3	2	3	3	1	1	....	21	1.44
55 to 60	.....	.....	2	2	4	2	3	1	...	1	....	15	1.03
60 to 65	.....	.....	1	1	..	1	1	2	2	....	....	8	.55
65 to 70	.....	.....	.....	....	....	....	....	1	2	...	2	5	.34
70 to 75	.....	.....	.....	....	....	2	....	1	1	....	...	4	.27
75 to 80	.....	.....	.....	....	....	1	1	....	....	....	....	2	.14
Whole number of Brides	183	618	380	138	79	23	16	9	8	2	2	1,458	
Percentage of Brides.....	12.55	42.38	26.06	9.46	5.42	1.58	1.10	.62	.55	.14	.14	.....	100.00

In 555 marriages, or 38.07 per cent. of all, the bride and groom were in the same division of age.

The aggregate and average age of persons married were as follows:

FOR THE YEAR 1897.

1,458 males.....Aggregate age, 42,319 years.....Average age, 29.03 years.
1,458 females..... .....Aggregate age, 37,203 years.....Average age, 25.52 years.

FOR THE FORTY-TWO YEARS, 1856 to 1897.

44,618 males.....Aggregate age, 1,290,599 years.....Average age, 28.93 years.
44,615 females.....Aggregate age, 1,054,226 years.....Average age, 23.63 years.

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The following figures show the average for the period of forty-two years, 1856 to 1897. For particulars of each year, see Reports for 1882, page 28, and for 1885, page 24:

Years.	No.	Average age.	No.	Average age.
	Males.		Females.	
1856–1860	3,037	27.93 years	3,034	24.05 years.
1861–1865	3,152	28.66 years	3,152	24.54 years.
1866–1870	4,428	28.38 years	4,428	24.72 years.
1871–1875	5,432	28 63 years	5,432	24.93 years.
1876–1880	5,221	29.11 years	5,221	25.21 years.
1881–1885	5,786	29.31 years	5,786	25.67 years.
1886–1890	6,731	29.10 years	6,731	25.43 years.
1891–1895	7,794	28.90 years	7,794	25.44 years.
1896	1,579	28.79 years	1,579	25.44 years.
1897	1,458	29.03 years	1,458	25.52 years.
Forty-two years	44,618	28.03 years	44,615	23.63 years.

Number of times married. Table XI. shows how many of the marriages in 1897 were the first, second or third marriages of the parties:

TABLE XI. MARRIAGES, 1897. *Number of times Married.*

GROOMS. Number of the Marriage.	BRIDES. Number of the Marriage.			Whole Number of Grooms.
	First.	Second.	Third.	
First	1,172	84	3	1,259
Second	108	76	2	186
Third	5	6	.....	11
Fourth	.....	1	1	2
Whole Number of Brides	1,285	167	6	1,458

In 1,172 cases, or 80.38 per cent. of all, it was the first marriage of both parties. The number of grooms married for the first time was 1,259, or 86.35 per cent. of all; of brides, 1,285, or 88.13 per cent.

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In 76 cases, or 5.21 per cent. of all, it was the second marriage of both parties.

Marriage of divorced persons. There were, in 1897, 8 marriages where both parties had been divorced; there were 42 other marriages where the man had been divorced, and 44 where the woman had been; in all, 94 marriages, or 6.45 per cent. of all, where one or both of the parties had been divorced. This was 1 more marriage and 0.56 per cent. more than in 1896.

The number and proportion of the marriages of this class in each year since 1883 have been as follows:

Year.	No.	Per ct.	Year.	No.	Per ct.
1883	95	8.07	1891	89	5.98
1884	91	7.95	1892	106	6.66
1885	74	6.78	1893	104	6.48
1886	76	6.08	1894	67	4.48
1887	100	7.48	1895	108	6.39
1888	82	6.08	1896	93	5.89
1889	97	7.09	1897	94	6.45
1890	95	6.64			

There were 2,916 persons married in 1897, of whom 102, or 3.50 per cent. had been divorced; 50 men and 52 women. The 94 marriages of divorced persons were performed by clergymen of the different denominations, or by civil authority, as follows:

Baptist	26	Lutheran	3
Methodist	18	Hebrew	3
Congregational	9	Unitarian	3
Universalist	8	Presbyterian	2
Christian	5	United Presbyterian	2
Justices, Supreme Court	5	Evangelical	1
Episcopal	4	Roman Catholic	1
Free Baptist	4		

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Denominational. The 1,458 marriages in 1897 were performed by clergymen of various denominations, or by civil authority, as follows:

Roman Catholic	584	United Presbyterian	20
Baptist	214	Presbyterian	16
Episcopal	172	Evangelical	6
Methodist	102	Primitive Methodist	3
Congregational	92	Advent Christian	3
Lutheran	89	Disciples of Christ	2
Universalist	88	Armenian	1
Free Baptist	87	Second Advent	1
Christian	34	New Jerusalem	1
Hebrew	34	L. D. S.	1
Unitarian	27	Not specified	8
Justices, Supreme Court	23	Total	1,458

Nativity and Residence. There were, in 1897, 117 marriages, or 8.02 per cent. of all, in which both parties were natives of Providence. There were besides, 112 marriages where the groom only was born here; and in 206 the bride only. This gives a total of 652 persons married here during the year who were natives of the city; this was 22.36 per cent. of the 2,916 persons married during the year.

In 206 marriages, or 14.13 per cent. of all, both parties were non-residents of the city; this was 25 less marriages and 0.50 per cent. less than in 1896. Of these 206 marriages, there were 126 where both parties were from outside the State; in 96 both parties came from Massachusetts; and in 17 others one of the parties was from that State.

Marriage Licenses. There were 1,586 marriage licenses issued in 1897 from the office of the City Registrar; this was 75 less than the number of marriages during the year. These two numbers never correspond exactly; see Report for 1886, page 26.

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The number of marriage licenses issued in each year since July 1, 1881, is as follows:

1881 (six months)	616	1890	1,513
1882	1,245	1891	1,607
1883	1,288	1892	1,708
1884	1,215	1893	1,690
1885	1,164	1894	1,576
1886	1,343	1895	1,730
1887	1,392	1896	1,661
1888	1,413	1897	1,586
1889	1,475		

Marriage and Education. The 2,916 persons married in Providence in 1897 were divided as follows, as to sex and nativity:

Born in the United States	Males, 803	Females, 812	Total, 1,615
Born in foreign countries	Males, 655	Females, 646	Total, 1,301

The number and proportion who signed the marriage certificate with a mark is shown in the following table:

	Whole No. Married.	Signed with a mark.	In each 100.
Males born in United States	803	10	1.25
Females born in United States	812	14	1.72
Total born in United States	1,615	24	1.49
Males born in foreign countries	655	79	12.06
Females born in foreign countries	646	104	16.10
Total born in foreign countries	1,301	183	14.07
Totals	2,916	207	7.10

There were 24 persons (10 males and 14 females) born in the United States who signed the marriage certificate with a mark. This was 12 less than in 1896; of these 24 persons, only one, a woman, was of white American parentage. This was 4.17 per cent.; in 1896 the proportion was 21.21 per cent. Of the other 23

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persons, 9 were colored (4 males and 5 females), and 14 of foreign parentage (6 males and 8 females).

There were 183 persons born in foreign countries (79 males and 104 females) who signed with a mark; this was 1 less than in 1896. The whole number of persons signing with a mark in 1897 was 10 less than in the preceding year, but the proportion to the whole number of persons married 0.23 per cent. more.

The following figures show these facts for the period of thirty-nine years, 1859 to 1897:

	Whole No. Married.	Signed with a mark.	In each 100.
Males born in the United States	26,147	992	3.79
Females born in the United States	26,253	1,297	4.94
Total born in the United States	52,400	2,289	4.37
Males born in foreign countries	16,665	3,578	21.47
Females born in foreign countries	16,559	4,868	29.40
Total born in foreign countries	33,224	8,446	25.42
Totals	85,624	10,735	12.54

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BIRTHS.

Physicians and midwives report the births which they attend, and clergymen their baptisms, and from these sources many names are added to the enumerator's returns. In 1897 the enumerators brought in 3,614 returns to which were added 505, which were received complete from other sources, so that the total number of complete returns for the year 1897 was 4,119. As the population of the city for 1897 was estimated at 154,000, the birth rate was 26.75. There were, in 1897, 6 less births than in 1896.

Previous to 1896 still births were always reckoned among the births in the registration reports of this city. This, however, is not the method followed by statisticians generally, and it is deemed advisable to make the statistics of this city comparable with those of other cities by reckoning as births only the living births.

TABLE I. BIRTHS, 1897. *Wards, Months, Sex, and Color.*

Months.	Wards.										Ward not stated.	Whole City.			Colored children included in preceding.		
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.		Males.	Females.	Total.	Males.	Females.	Total.
January....	31	19	77	11	29	42	26	21	40	64	4	177	187	364	3	4	7
February..	33	21	64	12	16	30	22	23	35	60	4	165	155	320	8	8	16
March.....	33	25	67	10	28	42	33	31	46	69	....	183	201	384	3	8	11
1st Quarter	97	65	208	33	73	114	81	75	121	193	8	525	543	1,068	14	20	34
April.....	32	17	44	5	24	30	22	14	33	57	2	160	120	280	6	5	11
May.....	25	32	55	16	22	30	26	24	33	56	5	159	165	324	7	4	11
June.....	31	18	61	6	12	33	18	23	35	58	1	148	148	296	3	9	12
2d Quarter.	88	67	160	27	58	93	66	61	101	171	8	467	433	900	16	18	34
July..	31	38	67	8	26	33	40	30	51	63	4	190	201	391	7	3	10
August....	40	27	90	18	25	41	37	19	48	59	1	206	199	405	4	7	11
September.	30	29	51	12	15	42	33	20	46	65	3	186	160	346	2	1	3
3d Quarter.	101	94	208	38	66	116	110	69	145	187	8	582	560	1,142	13	11	24
October....	32	29	60	8	21	43	27	16	52	72	2	160	202	362	....	8	8
November.	22	22	54	4	19	41	29	22	34	67	2	180	136	316	8	5	13
December..	20	23	68	11	21	32	32	21	36	66	1	190	141	331	5	6	11
4th Quarter	74	74	182	23	61	116	88	59	122	205	5	530	479	1,009	13	19	32
Whole year	360	300	758	121	258	439	345	264	489	756	29	2,104	2,015	4,119	56	68	*124

*In addition there was one Chinese in Ward IV. in December.

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Ratio. The estimated population of the city, in 1897, was 154,000. The ratio of the 4,119 births to population therefore was 26.75 per 1,000 inhabitants, or one in 37.39.

Season. The following figures show the aggregate number of births in each quarter of the year for the forty-two years, 1856 to 1896; the number in each quarter of 1897; and the same for the forty-two years, 1856 to 1897:

	Jan. March.	April. June.	First 6 mos.	July Sept.	Oct. Dec.	Second 6 mos.	Whole Year.
Forty-one years	24,936	25,623	50,559	26,275	26,687	52,962	103,521
1897	1,068	900	1,968	1,142	1,009	2,151	4,119
Forty-two years	26,004	26,523	52,527	27,417	27,696	55,113	107,640

Proportion of the sexes. The number of male children born in Providence in 1897 was 2,104; of female children, 2,015. The proportions of male and female children in each quarter and in the whole year were as follows;

	Males.	Females.	Males. Females. Males. Females.
Jan.-March	525	543	96.7 to 100 or 50.84 and 49.16 in each 100 born.
April-June	467	433	107.8 to 100 or 51.87 and 48.11 in each 100 born.
July-Sept	582	560	103.9 to 100 or 50.98 and 49.02 in each 100 born.
Oct.-Dec	530	479	110.6 to 100 or 52.53 and 47.47 in each 100 born.
Whole year	2,104	2,015	104.4 to 100 or 51.08 and 48.92 in each 100 born.

The following table shows the same facts for the 42 years, 1856–1897 inclusive:

	Males.	Females.	Males. Females. Males. Females.
Jan.-March	13,337	12,667	105.3 to 100, or 51.28 and 48.72 in each 100 born.
April-June	13,644	12,879	105.9 to 100, or 51.44 and 48.56 in each 100 born.
July-Sept	14,024	13,393	104.7 to 100, or 51.15 and 48.85 in each 100 born.
Oct.-Dec	14,152	13,544	104.4 to 100, or 51.10 and 48.90 in each 100 born.
42 years	55,157	52,483	105.1 to 100, or 51.24 and 48.76 in each 100 born.

The following table shows the relative proportion of the sexes for the forty-four years, 1854 to 1897; it is given by periods of five

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years, from 1854 to 1893. The whole number of children born during the forty-four years was 110,609.

TABLE II. BIRTHS, 1854 to 1896. *Proportion of the sexes.*

	Males.	Females.	Males.	Females.	Males.	Females.
1854–1858	4,171	3,885,	or 107.4	to 100;	or 51.77	and 48.23 in each 100 born.
1859–1863	4,050	3,752,	or 107.9	to 100;	or 51.91	and 48.09 in each 100 born.
1864–1868	3,977	3,787,	or 105.0	to 100;	or 51.22	and 48.78 in each 100 born.
1869–1873	5,056	4,946,	or 102.2	to 100;	or 50.55	and 49.45 in each 100 born.
1874–1878	6,817	6,428,	or 106.0	to 100;	or 51.47	and 48.53 in each 100 born.
1879–1883	7,037	6,619,	or 106.3	to 100;	or 51.53	and 49.47 in each 100 born.
1884–1888	7,681	7,235,	or 106.1	to 100;	or 51.49	and 48.51 in each 100 born.
1889–1893	9,437	9,209,	or 102.4	to 100;	or 50.62	and 49.38 in each 100 born.
1894	2,046	2,058,	or 99.4	to 100;	or 49.85	and 50.15 in each 100 born.
1895	2,178	1,966,	or 110.7	to 100;	or 52.56	and 47.44 in each 100 born.
1896	2,121	2,004,	or 105.8	to 100;	or 51.08	and 48.92 in each 100 born.
1897	2,104	2,015,	or 104.4	to 100;	or 51.08	and 48.92 in each 100 born.
44 years	56,675	53,934,	or 105.1	to 100;	or 51.24	and 48.76 in each 100 born.

The statistics for each year from 1854 to 1882, inclusive, will be found in the report for 1882, page 5; for 1883, in the report for that year, page 3; for the years 1884 to 1888, inclusive, in the report for 1889, page 3, and for the years 1889 to 1893 in the report for 1893, page 8.

Color. The number of colored children born in 1897 was reported as 124; this was four less than the preceding year. The number of colored persons in the city estimated according to the ratio shown by the state census of 1895 was 4,379, and the ratio of births in this class would therefore be 28.32 per thousand or 1 to each 35.31 colored inhabitants.

The colored children were born in different wards as follows: First, 24; second, 19; third, 11; fourth, 4; fifth, 6; sixth, 9; seventh, 27; eighth, 19; ninth, 5; tenth, 0.

The number in each month and quarter was:

January	7	April	11	July	10	October	8
February	16	May	11	August	11	November	13
March	11	June	12	September	3	December	11
1st Quarter	34	2d Quarter	34	3d Quarter	24	4th Quarter	32

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There were 56 males and 68 females among the colored children born in 1897, a proportion of 82.3 males to each 100 females; or 45.16 males and 54.84 females in each 100 children.

The births, marriages, and deaths among the colored population are given in the next table, in periods of five years, from 1856 to 1895, for 1896 and 1897, and for the whole period of forty-two years. The figures for the single years may be found in the reports for 1882, 1885, 1890, and 1895:

	Births.	Marriages.	Deaths.
1856–1860	222	75	267
1861–1865	228	117	291
1866–1870	421	241	365
1871–1875	512	257	543
1876–1880	511	238	529
1881–1885	565	273	558
1886–1890	581	302	632
1891–1895	603	281	716
1896	128	65	123
1897	124	63	121
42 years	3,895	1,912	4,145

The proportion of deaths to births among the colored population in 1897 was 97.6 to 100; in the forty-two years, 1856 to 1897, the proportion was 106.7 deaths to each 100 births.

PARENTAGE.

The following tables gives statistics as to the parentage of the children born in the city; the facts are interesting and important, as showing the variety of nationalities represented and the proportion of each class.

Table III. shows how many children of each class were born in each ward of the city, and the number and percentage of each class in the whole city. The *parentage* is reckoned according to the *birthplace of the father.*

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TABLE III. BIRTHS, 1897. *Wards and Parentage.*

BIRTH-PLACES OF FATHERS.	WARDS.										Ward not stated.	Whole City.	In each 100 born there were—
	I.	II.	III.	IV.	V.	VI.	VII	VIII.	IX.	X.			
America (mother Amer'n)	94	129	157	41	88	143	163	119	80	190	6	1,213	29.45
America (mother foreign)	30	18	67	9	22	42	35	25	32	91	2	373	9.06
Foreign countries (mother American)	26	34	55	10	27	38	30	25	31	77	3	358	8.69
Ireland	80	36	97	19	59	75	21	22	67	109	1	586	14.23
Great Britain	9	12	55	4	9	39	31	12	14	93	2	280	6.80
Germany	3	2	16	2	4	10	14	4	5	11	....	71	1.73
British America	7	9	13	2	3	8	5	3	3	22	....	75	1.82
French Canada	....	2	14	....	2	1	11	36	4	64	....	134	3.26
Portugal & West'n Islands	91	1	1	....	....	1	1	....	....	....	....	95	2.31
Sweden	7	6	15	4	23	41	12	2	5	31	2	148	3.59
Norway	1	....	....	....	....	7	6	....	....	6	....	20	.49
Italy	....	2	119	20	9	1	4	....	235	32	8	430	10.44
Russia	1	27	84	1	3	14	4	2	....	....	1	137	3.33
Poland	....	9	2	....	....	....	2	....	....	17	....	30	.73
Austria	1	3	11	2	1	8	1	....	....	1	....	28	.68
Bohemia	2	....	....	....	....	....	....	....	....	....	....	2	.05
Roumania	....	2	3	....	....	6	....	1	....	....	....	12	.29
France	2	....	1	....	3	3	....	5	....	....	....	14	.34
Switzerland	....	....	....	....	....	....	1	1	....	....	....	2	.05
Denmark	2	....	....	1	1	1	....	....	....	5	....	10	.24
Holland	....	1	....	....	....	....	....	....	....	....	....	1	.02
Belgium	....	....	....	....	....	....	....	....	....	3	....	3	.07
Spain	1	....	....	....	....	....	....	....	....	....	....	1	.02
Turkey	....	....	....	....	....	....	....	1	....	....	....	1	.02
Armenia	....	1	3	....	....	....	....	....	1	....	....	5	.12
Syria	....	....	....	....	....	....	....	....	5	....	....	5	.12
Bermuda	....	....	....	....	....	....	....	1	....	....	....	1	.02
West Indies	1	....	....	1	....	....	....	....	....	....	....	2	.05
China	....	....	....	1	....	....	....	....	....	....	....	1	.02
St. Helena	....	....	....	....	1	....	....	....	....	....	....	1	.02
Total Foreign	208	113	434	57	118	215	113	90	339	394	14	2,095	50.86
Unknown (mother Am'n)	2	3	26	1	2	1	2	4	2	2	3	48	1.16
Unknown (mother foreign)	....	2	18	....	....	....	1	1	3	1	1	27	.66
Both Unknown	....	1	1	....	1	....	1	....	....	1	....	5	.12
Ward Totals	360	300	758	121	258	439	345	264	489	756	29	4,119	100.00

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The statement given below shows the number and percentage of children of American, foreign, and mixed parentage since 1856. From 1856 to 1895 the statistics are given by periods of five years; then they are given for 1896 and 1897, and for the whole period of forty-two years.

The figures since 1891, however, do not include the whole number of births for those years, as there were in 1891, 82 cases, or 2.08 per cent. of all; in 1892, 94 cases, or 2.39 per cent.; in 1893, 113 cases, or 2.71 per cent.; in 1894, 107 cases, or 2.59 per cent.; in 1895, 115 cases, or 2.77 per cent.; in 1896, 98 cases, or 2.38 per cent., and in 1897, 81 cases, or 1.97 per cent., where the birthplace of one or both parents was not stated. The same is true of the total for forty-two years; the 690 cases being 0.64 per cent. of the whole number of births during that period:

	American.		Foreign.		Am. father. For. mother.		For. father. Am. mother.	
Years.	Number.	Per ct.	Number.	Per ct.	Number.	Per ct.	Number.	Per ct.
1856–1860	3,327	39.95	4,424	53.10	292	3 51	285	3.42
1861–1865	2,706	37.57	3,809	52.88	352	4.89	336	4.66
1866–1870	3,702	41.92	4,118	46.64	447	5.06	563	6.38
1871–1875	4,722	40.23	5,353	45.61	693	5.90	970	8.26
1876–1880	5,173	39.95	5,597	43.22	929	7.17	1,231	9.66
1881–1885	5,876	40.81	5,786	40.18	1,215	8.44	1,522	10.57
1886–1890	5,884	37.62	6,686	42.74	1,474	9.42	1,598	10.22
1891–1895	6,338	31.03	9,755	47.75	1,867	9.14	1,835	8.98
1896	1,206	29.21	2,104	51.02	371	8.99	346	8.39
1897	1,213	29.45	2,095	50.86	373	9.06	358	8.69
42 years	40,147	37.30	49,727	46.20	8,013	7.44	9,064	8.42

For fuller particulars for each year, see reports for 1882, page 9; 1885, page 7, and 1890, page 8.

The percentage of children born in Providence of parents of each nation is as follows, for each of the forty-two years, 1856–1897 inclusive:

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	American.	Irish.	English. S. & W.	German.	British Am.	French Can.	Portu.	Swedish & Norw'n.	Italian.	Other For'n
	P'er ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.
1856	42.09	41.79	4.84	2.27	....	....	.....	.....	.....	2.27
1857	38.51	44.32	5.92	3.73	....	....	.....	.....	.....	1.54
1858	41.30	42.98	4.82	2.26	....	....	.....	.....	.....	1.33
1859	37 60	45.58	5.34	3.26	....	....	.....	.....	.....	1.51
1860	40.11	40.96	6.55	2.85	....	....	.....	.....	.....	1.64
1861	37.91	42.61	6.03	2.49	....	....	.....	.....	.....	1.97
1862	38.52	41.53	6.02	3.07	....	....	.....	.....	.....	1.64
1863	35.73	43.08	6.35	2.98	....	....	.....	.....	.....	1.99
1864	38.69	41.36	6.55	2.75	....	....	.....	.....	.....	1.34
1865	36.67	42.99	5.93	1.85	....	....	.....	.....	.....	1.93
1866	40.20	39.52	6 25	2.21	....	....	.....	.....	.....	2.32
1867	39.72	37.81	5.66	3.02	....	....	.....	.....	.....	2.21
1868	41.75	36.01	6.48	1.88	1.07	....	.....	.....	.....	1.07
1869	45.19	34.14	4.01	1.81	1.32	....	.....	.....	.....	1.38
1870	42.35	34.68	6.19	1.96	1.91	....	.....	.....	.....	.90
1871	44.85	32.25	4.54	1.63	2.09	....	.....	.....	.....	1.73
1872	41.12	32.46	5.67	2.77	2.31	....	.....	.....	.....	2.31
1873	40.84	30.50	7.19	1.88	2.49	....	.....	.....	.....	2.16
1874	38.42	32.63	8.13	2.34	2.19	....	1.22	.....	.....	1.19
1875	37.50	31.53	7.60	2.85	2.67	....	.98	.....	.....	1.43
1876	38.27	31.05	7.75	2.59	2.89	....	1.22	.....	.....	1.25
1877	41.45	28.08	6.96	1.96	2.56	....	1.10	.....	.....	1.30
1878	39.40	29.65	6.74	2.55	2.86	....	1.18	.....	.....	1.71
1879	40.80	27.04	6.82	1.98	2.54	....	.96	.....	.....	1.70
1880	39.90	26.15	7.50	1.67	3.27	....	1.60	.....	.....	1.33
1881	40.71	23.19	9.34	2.03	3.00	....	1.07	.....	.....	2.43
1882	41.10	21.99	8.72	1.97	4.16	....	1.08	.....	.....	2.98
1883	40 67	21.23	9.02	2.67	3.05	....	.79	.....	.....	2.28
1884	41.00	20.87	8.66	2.50	3.15	....	1.25	.....	.....	3.35
1885	40.56	20 37	8.99	2.45	3.54	....	1.64	.....	.....	3.27
1886	40.71	19.02	8.85	2.13	4.36	....	1.66	.....	.....	4.49
1887	37.56	19.54	10.23	2.43	4.18	....	2.06	1.04	1.62	1.32
1888	39.70	17.47	9.20	1.76	3.86	....	1.95	1.53	2.81	2.14
1889	35.73	19.77	9.78	2.33	3.94	....	1.23	1.52	2.62	2.90
1890	34.82	17.44	10.15	1.76	5.18	....	2.31	1.99	4.30	2.68
1891	33.59	16.17	9.19	1.90	1.57	3.67	2.17	2.79	4.50	3.49
1892	30.30	17.09	8.82	1.95	1.50	3.35	2.89	2.45	5.17	4.57
1893	30.58	15.85	9.27	2.36	2.11	3.65	2.07	3.15	6.51	4.65
1894	30.57	15 50	8.56	2.10	2.14	3.44	2.34	3.02	7.34	4.20
1895	31.08	15.83	7.99	1.96	1.93	2.58	2.00	3.41	7.68	5.18
1896	29.24	14.55	7.61	1.60	2.18	3.61	2.04	3.88	9.14	6.47
1897	29.45	14.23	6.80	1.73	1.82	3.26	2.31	4.08	10.44	6.19

The British-Americans were included in the "other foreign" until 1868; the Portuguese until 1874; the Swedish, Italian, and Norwegian until 1887. In 1891 the French-Canadians were first reckoned separately from natives of the other British Provinces.

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Table IV. shows the parentage of the children more exactly by giving the birthplace of both parents:

TABLE IV. BIRTHS, 1897. *Parentage.*

BIRTHPLACES OF FATHERS.	BIRTHPLACES OF MOTHERS.												Whole number according to father's birthplace.
	United States.	Ireland.	Great Britain.	Germany.	British America.	French Canada.	Portugal and Western Islands.	Sweden and Norway.	Russia and Poland.	Italy.	Other Countries.	Unknown.	
United States	1,213	152	105	9	66	34	2	2	....	....	3	..	1,586
Ireland	103	549	24	....	11	1	....	....	...	....	1	..	689
Great Britain	120	40	219	1	11	1	....	4	....	....	4	..	400
Germany	25	6	3	56	....	....	....	....	2	....	4	..	96
British America	42	15	9	....	46	5	....	....	....	....	..	..	117
French Canada	27	2	1	....	3	128	....	....	....	....	..	..	161
Portugal & West'n Islands	8	2	....	....	....	....	93	....	....	....	..	..	103
Sweden and Norway	11	3	....	....	2	1	...	161	...	....	1	..	179
Russia and Poland	3	....	1	4	1	....	....	....	155	....	6	..	170
Italy	10	2	2	...	....	....	....	1	....	425	..	..	440
Other Countries	9	2	3	4	2	1	....	....	2	....	75	..	98
Unknown	48	10	6	1	3	3	....	1	.. .	2	1	5	80
Whole number according to mother's birthplace	1,619	783	373	75	145	174	95	169	159	427	95	5	4,119

The 1,213 children whose parents were both born in the United States were 29.45 per cent. of all the children born during the year. There were, in addition to these, 373 children whose fathers were born in the United States and the mothers in some foreign country; there were, therefore, 1,586 children of American fathers, or 38.51 per cent. of all. There were also 358 children whose fathers were foreign and the mothers American; and 48 where the mother was American, the father's birthplace being unknown; a total of 1,619 children of American mothers, or 39.30 per cent. of all.

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The children of the two classes of mixed parentage numbered 731, or 17.75 per cent. of all the children born during the year. The children of purely foreign parentage in 1897 numbered 2,095, or 50.86 per cent. of all.

Number of the Child.

Table V. shows how many of the children born in 1897 were the first, second, third, etc., children of their mothers; also, the same statistics for the children born during the forty-three years, 1855–1897:

NUMBER OF CHILD.	1897.			43 Years, 1855–1897.
	American.	Foreign.	Total.	
First child of mother.....	500	481	981	27,660
Second " " "	345	511	856	22,195
Third " " "	245	418	663	17,042
Fourth " " "	169	322	491	12,808
Fifth " " "	115	233	348	9,431
Sixth " " "	88	190	278	6,802
Seventh " " "	56	124	180	4,805
Eighth " " "	39	69	108	3,214
Ninth " " "	27	45	72	2,086
Tenth " " "	14	37	51	1,414
Eleventh " " "	7	25	32	790
Twelfth " " "	11	19	30	488
Thirteenth " " "	1	9	10	220
Fourteenth " " "	1	5	6	106
Fifteenth " " "	.....	1	1	54
Sixteenth " " "	.....	1	1	24
Seventeenth " " "	.....	1	1	16
Eighteenth " " "	.....	.....	.....	5
Nineteenth " " "	.....	.....	.....	6
Twentieth " " "	.....	.....	.....	1
Twenty-third " " "	.....	.....	.....	2
Statistics imperfect, not tabulated.....	1	4	5	66
Whole number of children.....	1,619	2,495	4,114	109,235

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Since 1891, when the births in this table were first distributed according to parentage, the following facts were unknown in the number of instances stated. Therefore, in all tables on this subject, the statistics are imperfect, and the number of children does not correspond with the total number born.

	Parentage of Mother Unknown.	Number of Child Unknown.
1891	9	2
1892	7	0
1893	5	13
1894	4	8
1895	2	5
1896	0	4
1897	5	5

The number of *first* children in 1897 was 981, or 23.82 per cent. of the 4,119 children born during the year. In the forty-three years, 1855 to 1897, there were 109,240 children born; of this number, 27,660 or 25.32 per cent. were the first children of their mothers.

Average Number of Children to each Mother. There were fifty-two plurality births in 1897, 51 cases of twins and 1 case of triplets, the number of mothers, therefore, was 4,066, but in tables VI. and VII. the number of mothers for 1897 is given as only 4,056 (because of the defective statistics mentioned above); these 4,056 mothers had borne in all 14,094 children, an average of 3.47 children to each mother; the average number of children to American mothers was 3.10; to foreign mothers, 3.72.

The following table shows the average number of children to each mother in the forty-three years, 1855–1897:

TABLE VI. BIRTHS, 1855 TO 1897.

Average Number of Children to each Mother.

Years.		No. of Mothers.	No. of Children.	Total No. of Children.	Average.	
1855–1859		8,186	8,280	27,815	3.40	children to each mother.
1860–1864		7,456	7,553	26,784	3.59	children to each mother.
1865–1869		8,126	8,239	28,158	3.47	children to each mother.
1870–1874		10,812	10,963	35,602	3.29	children to each mother.
1875–1879		12,850	12,987	44,955	3.50	children to each mother.
1880–1884		13,937	14,090	49,881	3.58	children to each mother.
1885–1889		14,995	15,161	52,356	3.49	children to each mother.
1890–1894	Am.	8,201	8,281	25,093	3.07	children to each mother.
	For.	11,121	11,252	39,210	3.52	
1895	Am.	1,685	1,701	5,202	3.09	children to each mother.
	For.	2,411	2,436	8,663	3.60	
1896	Am.	1,589	1,607	4,733	2.98	children to each mother.
	For.	2,482	2,514	8,912	3.59	
1897	Am.	1,600	1,618	4,957	3.10	children to each mother.
	For.	2,456	2,491	9,137	3.72	
Forty-three yrs.		107,907	109,173	371,458	3.44	children to each mother.

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TABLE VII. BIRTHS, 1897. *Number of Child with Age of Mother.*

AMERICAN MOTHERS.

Ages of the Mothers in Years.	Number of the Child.														Number of Mothers at each age.	Children they bore in 1897.	Total Children they had borne.	Average Number of Children to Mothers at each Age.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fourteenth.				
15	5	....	....	....	....	....	..	..	..	..	..	..	..	..	5	5	5	1.00
16	1	....	....	....	....	....	..	..	..	..	..	..	..	..	1	1	1	1.00
17	8	....	....	....	....	....	..	..	..	..	..	..	..	..	8	8	8	1.00
18	*25	7	....	....	....	....	..	..	..	..	..	..	..	..	31	32	38	1.22
19	32	9	2	....	....	....	..	..	..	..	..	..	..	..	43	43	56	1.30
20	39	14	6	....	1	..	..	..	..	..	..	..	..	..	60	60	90	1.50
21	42	16	6	1	1	....	..	..	..	..	..	..	..	..	66	66	101	1.53
22	46	24	14	7	2	....	..	..	..	..	..	..	..	..	93	93	174	1.87
23	49	36	14	6	1	....	..	..	..	..	..	..	..	..	106	106	192	1.81
24	43	35	14	6	*6	1	..	..	..	..	..	..	..	..	104	105	210	2.02
25	*36	34	20	10	6	2	..	..	..	..	..	..	..	..	107	108	245	2.29
26	45	37	21	13	5	....	2	1	..	..	..	..	..	..	124	124	281	2.27
27	20	24	20	7	*9	8	..	1	..	..	..	..	..	..	88	89	252	2.86
28	*21	27	*16	11	4	3	2	..	..	1	..	..	..	..	83	85	225	2.71
29	19	†16	*21	*18	10	8	2	1	..	..	..	..	..	..	91	95	296	3.24
30	18	18	20	*13	*8	*s10	*4	3	1	..	..	..	..	..	91	95	305	3 35
31	14	7	11	*s17	7	5	3	1	1	..	..	..	..	..	65	66	228	3 51
32	8	13	12	10	10	6	4	4	1	..	..	..	..	..	68	68	265	3.90
33	6	8	10	14	9	7	2	1	1	..	1	..	..	..	59	59	237	4.02
34	7	5	9	8	9	6	5	4	2	1	..	..	1	..	57	57	265	4.65
35	5	4	7	6	6	9	4	1	2	2	..	1	..	..	47	47	228	4.85
36	2	*6	10	4	6	5	3	3	4	1	2	..	..	..	45	46	231	5.13
37	1	....	4	6	8	7	4	*3	5	1	1	2	..	..	41	42	253	6.17
38	4	1	3	6	2	5	6	4	3	3	1	3	..	..	41	41	257	6.27
39	1	1	....	1	1	3	*7	6	1	1	1	2	..	..	24	25	174	7.25
40	2	1	3	3	1	1	3	1	..	2	..	1	..	..	18	18	97	5.39
41	....	....	1	1	1	....	1	4	..	1	..	..	..	..	9	9	61	6.77
42	....	1	1	....	2	2	2	1	2	..	1	..	..	..	12	12	78	6.50
43	....	....	....	1	....	....	..	..	1	..	..	1	..	..	3	3	25	8.33
44	....	....	....	....	....	....	..	..	3	..	..	1	..	1	5	5	53	10.60
45	....	....	....	....	....	....	1	..	..	..	..	..	..	..	1	1	7	7.00
46	....	....	....	....	....	....	..	..	..	1	..	..	..	..	1	1	10	10.00
50	....	....	....	....	....	....	1	..	..	..	..	..	..	..	1	1	7	7.00
Not stated	1	1	....	....	....	....	..	..	..	..	..	..	..	..	2	2	3	1.50
Totals	500	345	245	169	115	88	56	39	27	14	7	11	1	1	1,600	1,618	4,957	3.10

*One of these mothers bore twins. † Two of these mothers bore twins.

s. The second born of these twins was still-born, and is not reckoned in any tables o births.

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Table VII. Births, 1897. *Number of Child with Age of Mother.*

Foreign Mothers.

Ages of the Mothers in Years.	Number of the Child.																	Number of Mothers at each age.	Children they bore in 1897.	Total Children they had borne.	Average Number of Children to mothers at each age.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fourteenth.	Fifteenth.	Sixteenth.	Seventeenth.				
16....	1	1	...	....	....	....	....	..	..	..	..	...	..	..	..	..	..	2	2	3	1.50
17....	4	1	..	....	....	....	....	..	..	..	..	...	..	..	..	..	..	5	5	6	1.20
18....	†17	6	1	....	...	....	....	..	..	..	..	....	..	..	..	..	..	22	24	31	1.41
19....	28	7	....	....	....	...	....	..	..	..	..	....	..	..	..	..	..	35	35	42	1.20
20....	35	18	4	2	....	....	....	..	..	..	..	....	..	..	..	..	..	59	59	91	1.54
21....	32	18	9	2	....	....	....	..	..	..	..	....	..	..	..	..	..	61	61	103	1.69
22....	*54	*38	19	6	1	....	....	..	..	..	..	....	..	..	..	..	..	116	118	213	1.84
23....	51	55	22	9	3	....	....	..	..	..	..	....	..	..	..	..	..	140	140	278	1.99
24....	50	*45	†27	13	5	1	....	..	..	..	..	....	..	..	..	..	..	138	141	296	2.14
25....	49	52	*32	10	9	4	1	..	..	..	..	....	..	..	..	..	..	156	157	362	2.32
26....	37	35	32	21	10	5	...	..	..	..	..	....	..	..	..	..	..	140	140	367	2.64
27....	28	44	37	21	10	7	4	..	..	..	..	....	..	..	..	..	..	151	151	431	2.86
28....	*27	*34	42	*38	17	*14	6	2	..	1	..	....	..	..	..	..	..	177	181	597	3.37
29....	13	30	26	24	*14	9	3	1	1	..	..	....	..	..	..	..	..	120	121	404	3.37
30....	18	40	45	44	*31	17	6	1	1	..	1	...	..	..	..	..	..	203	204	736	3.63
31....	7	18	16	13	11	11	4	1	..	..	..	....	..	..	..	..	..	81	81	300	3.70
32....	8	20	25	21	28	18	7	1	4	..	..	....	..	..	..	..	..	132	132	548	4.15
33....	7	11	*19	21	*16	20	*12	5	6	1	..	....	..	..	..	..	..	115	118	543	4.72
34....	6	5	12	*‡14	*18	18	15	6	1	2	1	...	1	..	..	..	..	95	99	494	5.20
35....	1	9	23	14	15	20	*15	11	4	4	2	1	..	..	..	..	..	118	119	635	5.38
36....	3	8	3	*15	11	12	11	5	2	4	1	1	..	1	..	..	..	76	77	423	5.56
37....	1	6	5	*11	7	*9	9	4	3	6	2	2	..	..	..	..	..	63	65	389	6.17
38....	1	2	7	*6	*11	*13	*9	9	6	8	4	2	2	..	..	..	..	76	80	524	6.89
39....	2	3	5	*9	5	4	*9	5	7	2	*5	4	..	1	..	..	..	58	61	389	6.71
40....	....	2	3	4	6	3	7	9	2	2	4	2	..	..	..	..	..	44	44	304	6.91
41....	....	1	....	2	....	....	1	4	..	2	2	*sb	2	..	1	..	..	14	15	132	9.43
42....	....	1	1	1	4	3	1	1	4	1	2	*1	1	..	..	..	..	20	21	143	7.15
43....	1	....	1	1	1	1	....	3	1	1	..	....	*1	1	..	..	..	11	12	76	6.91
44....	....	1	1	...	....	1	3	..	1	2	..	5	..	1	..	..	1	16	16	152	9.50
45....	....	....	....	....	....	....	....	..	..	1	1	1	..	..	..	..	..	3	3	33	11.00
46....	....	....	....	....	....	....	...	1	..	..	..	....	..	..	..	..	..	1	1	8	8.00
47....	....	....	....	..	....	....	....	..	..	..	..	...	..	..	..	1	..	1	1	16	1.00
48....	....	....	....	....	....	....	....	..	1	..	..	....	1	1	..	..	..	3	3	36	1.00
49....	....	....	....	....	....	....	....	..	1	..	..	....	..	..	..	..	..	1	1	9	1.00
Not stat'd	....	....	1	...	....	....	1	..	..	..	..	....	1	..	..	..	..	3	3	23	1.00
Tot'ls	481	511	418	322	233	190	124	69	45	37	25	19	9	5	1	1	1	2456	2491	9137	3.72

* One of these mothers bore twins. † Two of these mothers bore twins.

‡ One of these mothers bore triplets.

s The second born of these twins was still-born and is not reckoned in any tables of births.

s. b. The first-born of these twins was still-born and is not reckoned in any tables of births.

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The reference marks in these tables indicate the number of the first child in cases of plurality births; thus of American mothers at the age of 29, two mothers bore twins which were their second and third children; two mothers bore twins which were respectively their second and third, and third and fourth children. Of foreign mothers, one mother at the age of 24 bore twins which were her second and third children. At the age of 34 one mother bore twins which were her fourth and fifth children, and one mother bore triplets, which were her fourth, fifth and sixth children.

The number of mothers in 1897 who were under 20 years of age was 152; 88 American and 64 foreign, 3.75 per cent. of the 4,051 mothers of known age. This was 0.23 per cent. more than the average for thirty-four years and six months, the time during which a record of the ages of the mothers has been kept.

The number of mothers in 1897 who were 40 years old and over was 164; 50 American and 114 foreign, or 4.05 per cent. of mothers of known age. This was 0.74 per cent. less than the average for thirty-four years and six months.

The following table shows the number and percentage at different age periods of the 94,191 mothers whose ages have been recorded since July 1, 1863:

	Number of Mothers.	Per cent.
Under twenty years	3,315	3.52
Twenty, and under twenty-five	20,960	22.25
Twenty-five, and under thirty	29,559	31.38
Thirty, and under thirty-five	22,126	23.49
Thirty-five, and under forty	13,721	14.57
Forty, and under forty-five	4,106	4.36
Forty-five and over	404	.43
Total	94,191	100.00

The average age of these 94,191 mothers is 28.82 years. This is 0.11 years more than the average age of the mothers of 1897, which was 28.71. The average age of *American* mothers in 1897 was 27.89 years; of *foreign* mothers, 29.75 years. The average age of the mothers for the period above mentioned is 5.19 years

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more than that of the brides for the last 42 years. The average age of the mothers for 1897 is 3.19 years more than that of the brides of the same year.

During this period of thirty-four years and six months the number of children borne by mothers whose age was stated was 95,178; the number of children to mothers at each age was as follows:

Age of mother.	Children.	Age of mother.	Children.	Age of mother.	Children.
13	3	27	5,832	41	676
14	9	28	6,679	42	773
15	43	29	4,988	43	451
16	150	30	7,088	44	294
17	405	31	3,419	45	234
18	988	32	4,628	46	71
19	1,785	33	3,862	47	48
20	2,644	34	3,378	48	24
21	3,138	35	4,301	49	8
22	4,523	36	2,915	50	16
23	5,165	37	2,409	51	1
24	5,613	38	2,615	53	2
25	6,410	39	1,714	54	1
26	5,954	40	1,971	55	1
All known ages					95,178

The 95,178 children were divided as follows to mothers of different age periods:

	Number of mothers.	Per cent.
Under twenty years	3,333	3.50
Twenty, and under twenty-five	21,083	22.15
Twenty five, and under thirty	29,863	31.38
Thirty, and under thirty-five	22,375	23.51
Thirty-five, and under forty	13,964	14.66
Forty, and under forty-five	4,164	4.37
Forty-five and over	406	.43
Total	95,178	100.00

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PLURALITY BIRTHS.

The number of plurality births in 1897 was 52; two more than in 1896. There were 51 cases of twins, and one case of triplets.

Of the 105 children, 101 were living, and 4 were still-born, and are not counted among the births in any of the tables.

Locality—First ward, 3; second, 3; third, 12; fourth, 3; fifth, 1; sixth, 7 cases of twins, and 1 of triplets; seventh, 3; eighth, 3; ninth, 4; tenth, 12.

Season:

January..... 6	April..... 4	July..... 4	October..... 2
February..... 6	May..... 3	August..... 9	November 2
March 4	June..... ... 2	September... 4	December..... 6
1st quarter....16	2d quarter... 9	3d quarter...17	4th quarter.....10

Sex. In 14 cases of twins both children were males; in 16 both were females; and in 21 there was one child of each sex. In the four cases where one child was still-born there were of living children, 2 males, and two females. All of the triplets were females; whole number of living male children, 48; females, 53.

Color. In two cases the parents were colored; all others white.

Parentage. The parentage of the 51 cases of twins was as follows:

American	15	Swedish	2
Irish	5	Norwegian	1
English	5	Irish and American	1
Italian	4	English and American	1
Russian	4	American and Irish	1
German	3	American and English	1
Portuguese	3	American and French Canadian	1
British American	2	Scotch and Irish	1
French Canadian	2	Unknown and American	1

The triplets were born in January in the sixth ward, of German parents.

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FORTY-THREE YEARS' SUMMARY OF PLURALITY BIRTHS.

In the forty-three years, 1855 to 1897, there were 1,249 cases of plurality births in Providence; 1,236 of twins; 12 of triplets; and one of quadruplets.

Sex. In the case of the quadruplets, all the children were males.

Of the twelve cases of triplets, in one case, all the children were males; in seven cases, all were females; and in three cases there were two male children and one female, and in one case one male and two females; making 10 male and 26 female children in the twelve cases.

In the 1,236 cases of twins, there were 413 where both children were males; in 413 both were females; and in 410 cases there was one male and one female child; omitting the still-born children, there were 1,232 males, and 1,231 females.

In the 1,249 cases of plurality births, there were 1,246 male and 1,257 female children; a proportion of 100.9 females to 100 males; or 50.22 female, and 49.78 male children in each 100 born.

Color. In the cases of triplets and quadruplets, the parents were all white; of the 1,236 cases of twins, in 1,156 the parents were white, and in 80 they were colored.

Parentage. Of the quadruplets, the father was American and the mother British-American.

Of the triplets, in one case the parents were both American; in five cases, both were Irish; in two cases both were German; in one case both Italian: in one the father was English and the mother Irish; in one, the father Scotch and the mother Irish; and in one, the father American and the mother Irish. There was but one American mother in twelve cases.

The parentage of the 1,236 cases of twins is shown in the following table, the first letter indicating the birth-place of the father, the second that of the mother:

A., American; I., Irish; E., English; S., Scotch; W., Welch; G., German; B. A., British American; F. C., French Canadian;

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D., Dutch; P., Portuguese; It., Italian; Sw, Swedish; N., Norwegian; F., French; Br., Brazilian; R., Russian; Pol., Polish; W. I., West Indian; Aus, Austrian; B., Belgian; Aust., Australian; A. O., Atlantic Ocean.

Parentage.	No.	Parentage.	No.	Parentage.	No.	Parentage.	No.
A. and A	465	E. and A	17	G. and E	1	R. and Aus	1
I. and I	336	S. and A	3	B. A. and E	1	Swiss and S	1
E. and E	61	B. A. and A	11	A. and S	6	Swiss and I	1
S. and S	18	G. and A	3	F. and A	1	E. and Aust	1
G. and G	30	Sw. and A	2	W. I and A	1	A. and F. C	3
B. A. and B. A	29	A. and I	44	N. and E	1	F. C. and A	1
F. C. and F. C	9	E. and I	18	It. and F	1	G. and Pol	1
D. and D	1	S. and I	4	I and S	6	Sw. and E	1
N. and N	4	I. and G	2	E. and S	2	A. and W	1
P. and P	28	G. and I	1	E. and B. A	4	A. O. and A	1
It. and It	34	B. A. and I	5	I. and W	2	Bel. and A	1
Sw. and Sw	6	Sw. and I	1	A. and B. A	14	Pol. and G	1
P. and A	2	It. and I	2	I. and B. A	5	Unknown and Am.	1
R. and R	17	P. and I	1	F. and B. A	1		
Pol. and Pol	4	A. and E	16	S. and B. A	1	Totals	1,236
Br. and Br	1	I. and E.	15	A. and Sw	1		
I. and A	40	S. and E	2	Aus. and R	1		

In the 1,236 cases of twin births, 489 mothers, or 39.56 per cent., were American; 413, or 33.42 per cent., were Irish, and 334, or 27.02 per cent., were of other foreign nations. In the 1,249 cases of plurality births, 490 mothers were American; this was 0.98 per cent. of the 49,819 American mothers who bore children during the 43 years, 1855 to 1897; 758 mothers were foreign, which was 1.31 per cent. of the 57,826 foreign mothers who bore children during the same period.

Proportion of plurality births to whole number. The following figures show the number and proportion of plurality births in 1897, and in the forty-three years, 1855–1897:

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	Single Births.	Twin.	Triplet.	Quadruplet.	Whole No. of Births.	Whole No. of Children.
42 years, 1855–1896	102,716	1,185	11	1	103,913	105,121
1897	4,014	51	1	0	4,066	4,119
43 years, 1855–1897	106,730	1,236	12	1	107,979	109,240

Proportion of *cases* of plurality births:

	Twins.	Triplets.	Quadruplets.
1855–1896	1 in 87.8	1 in 9,446.5	1 in 103,913
1897	1 in 79.7	1 in 4,066.	
43 years, 1855–1897	1 in 87.4	1 in 8,998.2	1 in 107,979

Proportion of *children* of plurality births:

	Twins.	Triplets.	Quadruplets.
1855–1896	1 in 44.4	1 in 3,185 5	1 in 26,280.2
1897	1 in 40.3	1 in 1,373.0	
43 years, 1855–1897	1 in 44.2	1 in 3,034.4	1 in 27,310.

Proportion of plurality births by parentage. In the forty-three years, 1855 to 1897, the whole number of births was 107,979. The following table shows the number of births of American, foreign, and mixed parentage, so far as known, and the number and proportion of plurality births in each of these classes:

	Whole No. Births.	Plurality Cases.	1 in	Per ct.
American parents	40,379	406	99.5	1.01
Foreign parents,	49,903	669	74.5	1.34
American father, foreign mother	7,969	87	91.5	1.09
Foreign father, American mother	9,039	85	106.3	.94
Total	107,290	1,247	86.0	1.16

Of these 1,247 cases of plurality births during the forty-three years, the 406 of American parentage were 32.56 per cent.; the 669 of foreign parentage were 53.65 per cent.; the 87 with Ameri-

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can fathers and foreign mothers, 6.98 per cent., and the 85 with foreign fathers and American mothers, 6.81 per cent.

Illegitimacy. The number of illegitimate births recorded in Providence in 1897 was 74, or 1.80 per cent. of all the children born during the year. The actual number was undoubtedly greater than this, as the method of obtaining records by enumerators is less likely to secure accurate information on this than on any other point.

Forty-two of these births occurred at the Providence Lying-in Hospital.

In 61 cases this was reported as the first child of the mother; in 1 case there were twins, the first and second children; in 2 other cases the second child; in 5 cases the third; in 1 case the fourth; in 1 case the fifth; in 1 case the seventh; in 1 case the number of the child was not stated.

The nativity of the mothers was as follows:

United States	43	Sweden	1
Ireland	10	Great Britain	6
Canada and the British Provinces	6	Austria	1
Italy	2	Germany	1
Western Islands	1	Unknown	2

The 43 mothers of American birth were 58.90 per cent. of all. Of these, 22, or 30.14 per cent. of all, were born in Providence. Fifteen of the mothers, or 20.55 per cent., were colored.

The ages of the mothers were as follows:

Age.	No. of Mothers.	Age.	No. of Mothers.	Age.	No. of Mothers.
15	4	23	8	34	1
16	1	24	1	35	2
17	5	25	5	37	2
18	7	26	2	38	1
19	6	27	3	39	1
20	5	28	2	Unknown	2
21	7	30	2		
22	5	31	1		

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STILL-BORN.

There were 220 still-born children in Providence in 1897; this was 2 more than in 1896, and was 5.34 per cent. of the 4,119 children born in 1897, or one in 18.72.

Sex. Males, 135; females, 85.

Color. White, 210; colored, 10.

Locality. First ward, 20; second, 23; third, 52; fourth, 9; fifth, 12; sixth, 13; seventh, 15; eighth, 22; ninth, 29; tenth, 24; and of one the birth-place was not stated.

Season. January, 19; February, 16; March, 21; April, 22; May, 13; June, 23; July, 15; August, 24; September, 15; October, 24; November, 10; December, 18.

The number and proportion in each quarter were:

	Number.	Per cent.		Number.	Per cent.
First quarter	56	25.46	Third quarter	54	24.54
Second quarter	58	26.36	Fourth quarter	52	23.64

Parentage. The following table shows the parentage of the 220 still-born children in 1897; the first letter representing the birth-place of the father, the second that of the mother.

A.—American; I.—Irish; E.—English; S. Scotch; W.—Welsh; G.—German; B. A.—British American; F. C.—French Canadian; P.—Portuguese; Sw.—Swedish; It.—Italian; R.—Russian; Pol.—Polish; Aus.—Austrian; Arm.—Armenian; Syr.—Syrian; Sp.—Spanish; W. I.—West Indian; Aust.—Australian; Unk.—Unknown.

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A. and A.....70	R. and A..... 1	Aust. and I..... 1
I. and I.....34	I. and A..... 9	A. and G..... 1
E. and E..... 7	E. and A..... 4	A. and B. A 3
S. and S..... 1	S. and A..... 1	E. and B. A..... 1
B. A. and B. A..... 6	B. A. and A..... 3	Syr. and Syr..... 1
F. C. and F. C..... .. 4	A. and I..... 4	Aus. and R..... 1
P. and P..... 6	E. and I..... 4	Sp. and E..... 1
It. and It 19	A. and Sw..... . 1	Arm. and Arm..... .. 1
Sw. and Sw..... 5	Sw. and A..... 2	Unk. and A. 2
R. and R..... 7	F. C. and A..... 2	Unk. and B. A..... 3
Pol. and Pol..... 1	A. and E..... 5	Unk. and Unk..... 1
Aus. and Aus..... 1	F. C. and I..... 1	—
W. and W..... 1	S. and E..... 1	Total 220
G. and G..... 3	G. and Pol..... 1	

The number and proportion of children borne by mothers of different nativities so far as specified in 1897 were as follows:

	Number of children.	Per cent.
American mothers.....	1,619	39.35
Irish mothers.....	783	19.03
Other foreign mothers.....	1,712	41.62
Total.....	4,114	100.00

The next table shows the same facts concerning the 220 still-born children in 1897:

	Still-born children.	Per cent.
American mothers...	94	42.92
Irish mothers.....	44	20.09
Other foreign mothers.....	81	36.99
Total.....	219	100.00

The proportion of still-born children to the whole number of children borne of mothers of each class in 1897 is shown by the following table:

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	Whole number of children.	Still-born children.	Percentage of still-born.	Or 1 in
American mothers	1,619	94	5.81	17.2
Irish mothers	783	44	5.62	17.8
Other foreign mothers	1,712	81	4.73	21.1
Totals	4,114	219	5.32	18.8

In the 42 years, 1856 to 1897, the whole number of children born was 107,640, of still-born 5,948, or 5.53 per cent., or 1 in 18.1

Of the 5,948 still-born children, 5,600 were white, and 348 colored; 3,438, or 57.80 per cent. were males, and 2,509, or 42.20 per cent., were females.

The following statement shows the whole number of children borne by mothers of different nativities during the 42 years, 1856–1897, inclusive; also the number of still-born children to mothers of each class, and the percentage of the latter to the whole number of children:

	Whole number of children.	Still-born children.	Percentage of still-born.	Or 1 in
American mothers	49,611	2,643	5.33	18.8
Irish mothers	32,369	2,113	6.52	15.3
English, Scotch, or Welsh mothers	9,930	539	5.42	18.4
German mothers	2,271	82	3.61	27.7
British-American mothers*	5,697	234	4.11	24.3
Other foreign mothers	7,730	327	4.23	23.6
Unknown	32	10	31.25	3.2
Total	107,640	5,948	5.53	18.1

* Including French-Canadian.

Reckoned by the fathers' birth-places, 2,664, or 44.79 per cent., of the 5,948 still-born children were American; 2,005, or 33.71 per cent., were Irish, and 1,256, or 21.11 per cent., were children of other foreign fathers; of 23, or 0.39 per cent., the parentage was not stated.

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GENERAL SUMMARY.

The following recapitulatory table gives the general result of registration in Providence during the forty-three years, 1855 to 1897, inclusive:

Table XXII. Births, Marriages, and Deaths.

Year.	Population.	Births.	Of population one birth to	Births in each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population one death in	Deaths in each 1,000.
1855	‡47,785	1,000	29.86	33.49	636	37.56	26.62	991	48.22	20.74
1856	48,747	1,675	29.09	34.38	656	37.14	26.93	1,065	45.75	21.86
1857	49,457	1,688	29.30	34.13	614	40.27	24.83	925	53.46	18.70
1858	49,457	1,724	28.68	34.87	560	44.15	22.65	1,017	48.63	20.56
1859	50,100	1,593	31.45	31.80	616	40.66	24.59	899	55.72	17.94
1860	*50,666	1,648	30.74	32.53	633	40.02	24.99	1,001	50.61	19.76
1861	50,666	1,725	29.37	34.05	547	46.31	21.59	1,051	48.21	20.74
1862	52,238	1,529	34.16	29.27	547	47.75	20.94	914	57.15	17.50
1863	53,024	1,307	40.56	24.65	610	43.46	23.01	1,214	43.67	22.90
1864	53,810	1,344	40.04	24.97	739	36.40	27.47	1,281	42.01	23.81
1865	†54,595	1,298	42.06	23.78	700	38.50	25.97	1,211	45.08	22.18
1866	55,709	1,632	34.13	29.29	812	34.30	29.15	1,036	53.77	18.60
1867	56,824	1,624	34.99	28.58	855	33.23	30.09	960	59.19	16.89

* U. S. Census. † State Census. ‡ City Census.

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GENERAL SUMMARY.—Continued.

Year.	Population.	Births.	Of population one birth to	Births in each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population one death in	Deaths in each 1,000.
1868	64,138	1,866	34.37	29.09	872	36.77	27.20	1,110	57.78	17.31
1869	66,522	1,819	36.57	27.34	930	35.76	27.96	1,256	52.96	18.88
1870	*68,904	1,889	36.48	27.41	959	35.93	27.83	1,263	54.55	18.33
1871	72,011	1,960	36.74	27.22	943	38.13	26.23	1,254	57.42	17.41
1872	75,118	2,206	34.05	29.37	1,084	34.63	28.88	1,603	46.86	21.34
1873	78,225	2,128	36.76	27.20	1,110	34.01	29.40	1,719	45.51	21.98
1874	‡96,452	2,780	34.69	28.83	1,176	41.01	24.38	1,987	48.54	20.60
1875	†100,675	2,664	37.79	26.46	1,079	46.65	21.44	1,915	52.57	19.02
1876	101,511	2,631	38.58	25.92	949	53.48	18.70	1,865	54.43	18.37
1877	101,000	2,543	39.72	25.18	953	53.99	18.87	1,938	52.12	19.19
1878	‡102,286	2,627	38.94	25.68	1,016	50.34	19.86	1,989	51.43	19.44
1879	103,572	2,522	41.07	24.35	1,071	48.35	20.68	2,026	51.12	19.56
1880	*104,857	2,627	39.92	25.05	1,234	42.49	23.53	2,080	50.41	19.84
1881	109,617	2,803	39.10	25.58	1,202	45.60	21.93	2,145	51.10	19.56
1882	114,377	2,788	41.02	24.38	1,173	48.80	20.49	2,242	51.01	19.60

* U. S. Census. † State Census. ‡ City Census.

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GENERAL SUMMARY.—Concluded.

Year.	Population.	Births.	Of population one birth to	Births in each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population one death in	Deaths in each 1,000.
1883	‡117,018	2,916	40.13	24.92	1,177	49.71	20.12	2,328	50.27	19.89
1884	117,544	2,956	39.76	25.15	1,144	51.37	19.47	2,233	52.64	19.00
1885	†118,070	2,936	40.21	24.87	1,091	54.11	18.48	2,164	54.56	18.33
1886	120,000	2,960	40.54	24.67	1,249	48.04	20.82	2,355	50.96	19.62
1887	121,000	2,963	41.01	24.38	1,336	45.47	21.99	2,612	46.52	21.50
1888	123,000	3,131	39.28	25.46	1,349	45.59	21.98	2,608	47.16	21.20
1889	127,000	3,171	40.05	24.97	1,367	46.45	21.53	2,510	50.6[illegible]	19.76
1890	*132,146	3,417	38.67	25.86	1,430	46.20	21.64	2,877	45.93	21.77
1891	135,000	3,951	34.17	29.27	1,488	45.36	22.04	2,630	51.33	19.48
1892	138,000	4,006	34.45	29.03	1,592	43.34	23.72	2,964	46.56	21.48
1893	¶150,000	4,210	35.63	28.07	1,606	46.70	21.41	3,139	47.79	20.93
1894	153,000	4,118	37.15	26.92	1,499	51.03	19.59	2,896	50.32	19.87
1895	†145,472	4,145	35.09	28.49	1,563	46.53	21.48	3,087	47.12	21.22
1896	150,000	4,125	36.36	27.50	1,579	47.50	21.05	2,955	50.76	19.70
1897	154,000	4,119	37.39	26.74	1,458	52.81	18.94	2,805	54.90	18.21
43 years' average	93,815	2,540	36.93	27.07	1,053	44.55	22.45	1,863	50.36	19.85

* U. S. Census. † State Census. ‡ City Census. ¶ City Census in January, 148,944.

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BIRTHS AND DEATHS BY PARENTAGE.

13 The following recapitulatory table shows the number of births and deaths by parentage, in Providence, in each of the 42 years, from 1856 to 1897, inclusive. In the three years, 1863, 1864, and 1865, there was an excess of deaths over the births, in the population of American parentage:

Table XXIII.

Year.	American Parentage.					Foreign Parentage.				
	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.
1856	541	759	218	94	12.3	524	916	392	138	15.0
1857	523	701	178	95	13.5	402	987	585	103	10.4
1858	512	771	259	88	11.4	505	953	448	121	12.6
1859	479	659	180	63	9.5	420	934	514	107	11.4
1860	512	731	219	91	12.4	489	917	428	116	12.6
1861	538	740	202	105	14.1	513	985	472	148	15.0
1862	460	663	203	75	11.3	454	866	412	91	10.5
1863	597	528	—69	62	11.7	617	779	162	115	14.7
1864	649	579	—70	80	13.8	632	765	133	180	16.9
1865	631	546	—85	92	16.8	580	752	172	109	14.3
1866	513	726	213	72	9.9	523	906	383	112	12.3
1867	528	725	197	76	10.4	432	899	467	106	11.7
1868	596	882	286	111	12.5	514	984	470	116	11.7

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BIRTHS AND DEATHS BY PARENTAGE.

TABLE XXIII. — CONTINUED.

YEAR.	AMERICAN PARENTAGE.					FOREIGN PARENTAGE.				
	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.
1869	627	926	299	123	13.2	629	893	264	113	12.5
1870	642	890	248	129	14.4	621	999	378	148	14.8
1871	643	980	337	111	11.3	611	980	369	134	13.6
1872	832	1,035	203	171	16.5	771	1,171	400	186	15.8
1873	862	1,003	141	155	15.4	857	1,125	268	189	16.8
1874	885	1,217	332	169	13.8	1,102	1,563	461	233	14.9
1875	914	1,180	266	181	15.3	1,001	1,484	483	228	15.3
1876	875	1,169	294	165	14.1	990	1,462	472	223	15.2
1877	908	1,238	330	162	13.0	1,030	1,305	275	203	15.5
1878	889	1,215	326	168	13.8	1,100	1,412	312	205	14.5
1879	941	1,228	287	140	11.3	1,085	1,294	209	176	13.6
1880	920	1,252	332	175	13.9	1,160	1,375	215	206	14.9
1881	999	1,365	366	205	15.0	1,146	1,438	292	209	14.5
1882	965	1,370	405	186	13.5	1,277	1,418	141	230	16.2
1883	1,047	1,457	410	209	14.3	1,281	1,459	178	209	14.3
1884	992	1,452	460	207	14.2	1,241	1,504	263	262	17.4
1885	1,012	1,447	435	187	12.9	1,152	1,489	337	189	12.7

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BIRTHS AND DEATHS BY PARENTAGE.

Table XXIII. — Concluded.

Year.	American Parentage.					Foreign Parentage.				
	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.
1886	1,029	1,469	440	201	13.6	1,326	1,491	165	238	15.9
1887	1,082	1,391	309	202	14.5	1,530	1,572	42	250	15.9
1888	1,101	1,544	443	212	13.7	1,507	1,587	80	224	14.1
1889	1,073	1,441	368	232	16.0	1,437	1,730	293	267	15.4
1890	1,195	1,513	318	289	19.1	1,682	1,904	222	348	18.2
1891	1,063	1,698	615	251	14.7	1,547	2,178	631	325	10.3
1892	1,179	1,601	422	291	18.1	1,783	2,251	468	348	15.4
1893	1,242	1,629	387	286	17.5	1,885	2,421	536	400	16.5
1894	1,156	1,613	457	287	17.7	1,740	2,385	645	361	15.1
1895	1,223	1,672	449	267	15.9	1,864	2,358	494	389	16.4
1896	1,109	1,577	468	277	17.5	1,846	2,548	702	351	14.9
1897	1,116	1,586	470	274	17.3	1,689	2,528	839	363	14.4
Forty-two years	35,630	48,168	12,546	7,017	14.6	43,495	58,967	15,472	8,749	14.8

Respectfully submitted,

CHARLES V. CHAPIN,

City Registrar.

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ANNUAL REPORT

OF THE

CITY ENGINEER

OF THE

CITY OF PROVIDENCE,

FOR THE YEAR 1897.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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1898.] CITY DOCUMENT. [No. 10.

ANNUAL REPORT

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REPORT.

CITY ENGINEER'S OFFICE, CITY HALL,
PROVIDENCE, R. I., January 1, 1898.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

In compliance with the ordinances relating to the City Engineer's Department, the following report of the expenses and operations of the department for the year 1897 is respectfully submitted:

The amounts paid from the appropriations for this department from January 1, 1897, to January 1, 1898, are as follows:

Expended from the appropriation for 1896–97,	$35,472 93
" " " " " 1897–98,	11,128 67
Total amount expended, . . .	$46,601 60

The condition of the appropriation for 1897–98 is as follows:

Amount appropriated for the fiscal year ending September 30, 1898, ...	$50,000 00
Amount expended to January 1, 1898, . .	11,128 67
Unexpended balance January 1, 1898, .	$38,871 33

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At the close of the fiscal year, September 30, 1897, the balance of appropriation unexpended, $0.51, was transferred from the account of this department.

CLASSIFICATION OF EXPENDITURES.

For salaries	$44,168 67
" car tickets	1,065 65
" instruments and repairs	94 65
" supplies, drawing materials, etc.	1,192 51
" incidentals	68 45
" telephone lines	11 67
Total	$46,601 60

In addition to this amount the sum of twelve thousand eight hundred nineteen dollars and sixty-two cents has been paid for engineering services out of the Improved Sewerage construction account, and the sum of four hundred and thirty-two dollars out of the Public Park account.

The item for salaries of assistants may be divided as follows:

For general superintendence, estimating the cost and giving lines and grades for the extension of water pipes, engine and water calculations, service pipe work, for surveys and other matters relating to water works,	$6,959 31
For giving lines and grades for sewer construction, making preliminary surveys and plans, finished plans and sections, private drains, surveys, estimates, plans, etc., and all work relating to sewers,	2,580 23

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In addition to this amount the sum of twelve thousand eight hundred nineteen dollars and sixty-two cents has been paid for engineering services for the Improved Sewerage system, out of the Improved Sewerage construction account.

For marking lines and grades for and estimating cost of street construction, defining established grades, designing and defining proposed grades, making profiles, etc., for estimating the cost of laying water pipes, office records, etc., ...	$8,405 58
For defining street lines, making surveys and maps for street relays and extensions, office records, etc., ...	3,420 86
For surveys, maps, and examination of titles to city property, ...	2,722 65
For surveys, and plans relating to parks, .	3,148 21

In addition to this amount the sum of four hundred and thirty-two dollars has been paid for engineering services out of the Public Park account.

For surveys and plans relating to North Burial Ground, ...	1,605 66
For surveys, plans, and estimates for bridges and superintendence of repairs of same, .	4,381 17
For all work relating to harbor and river improvements, ...	25 87
For all work relating to public buildings, .	500 97
For office work, including clerk hire, etc., .	2,920 95
For all other miscellaneous work, including location of telegraph and telephone poles, meteorological observations, terminal facilities, etc., ...	2,497 21

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METEOROLOGICAL.

There are now set up and in operation under the direction of this department, the following meteorological instruments:

1 self-registering barometer,
1 " " thermometer,
1 " " anemometer,
1 " " anemoscope,
1 " " rain gauge,
1 standard barometer,
1 " thermometer,
1 " hygrometer,
1 " rain gauge,
1 maximum thermometer,
1 minimum "

The following tables show the record of meteorological observations that have been kept and compiled during the year, viz.:

One table showing the depth of rain and melted snow that fell during each storm, and the duration of each storm in hours during the year. This table is a continuation of twenty similar tables, covering a period from 1877 to 1896, inclusive, that were published in the reports of the city engineer from 1891 to 1896, inclusive. A summary is also given following this table, showing the number of times, from 1877 to 1897, inclusive, that the depth of rainfall of each storm has been the nearest to a series of amounts ranging from one one-hundredth of an inch to eight inches.

One table showing the monthly and annual depth of rain and melted snow expressed in inches from 1832 to 1897, inclusive; also the amounts that have fallen from January 1st to the end of each month, inclusive, during each year.

Twelve tables showing the daily observations during each month.

One table showing the monthly summary for the year 1897, and the yearly summary of each year since 1880.

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Three tables showing the monthly temperatures since 1880, viz.: the mean temperature, the maximum temperature, and the minimum temperature.

The record of meteorological observations is computed and hektographed monthly, and about twenty-four copies are sent to people who are particularly desirous of obtaining the same for scientific investigation or practical use. A great deal of detailed and general information in regard to meteorology is also furnished to people who make inquiries, as well as to representatives of the press.

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Rainfall at Providence, R. I.

The first of the following tables shows the amount or depth of rain and melted snow that fell during each storm, expressed in inches, and the duration of each storm, expressed in hours, for the year 1897, at Hope Reservoir. The duration of each storm is not in the majority of cases the number of hours of actual rainfall, but the number of hours from the commencement to the end of the storm. The second table is the summary previously mentioned.

* Two separate storms.

† The storm ceased in the following month.

U. S. Signal Service gauges of the old pattern were used in measuring the rainfall from 1878 to 1885, inclusive. These gauges were afterwards found to be slightly in error, owing to their faulty construction. It was not possible, under the circumstances, to determine a correction to apply to the amount that fell during each storm from 1878 to 1885, inclusive, consequently the amounts in the second table for this period will not agree with the amounts given in the third table of the total monthly and yearly amounts of rainfall from 1832 to 1897, inclusive, as, in this last mentioned table the amounts from 1878 to 1885, inclusive, have been corrected by an average correction that was determined for the purpose.

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Depth of Rainfall and Melted Snow and Duration of each Storm.

FOR THE YEAR 1897.

Day of Month.	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Day of Month.
	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	
1					.10	7															2.91	35			1
2					.17	25									.04	1	.67	7							2
3									*1.20	30													.05	4	3
4	1.95	23																					.45	17	4
5					.34	10	.41	31			.06	8			.38	11									5
6			.53	11																					6
7																							.25	19	7
8			.05	9			*2.03	38													.84	27			8
9					.08	21					1.94	26													9
10									.08	2															10
11							.06	4					.06	7											11
12			1.40	18	.13	6			.81	41	.06	1							.19	10	1.40	19	.56	8	12
13											.08	1	.98	34											13
14					.46	8			.05	5															14
15							.63	15															2.92	27	15
16									.07	4					.64	26	.06	2			*.34	14			16
17	.52	13					.13	5																	17
18															1.86	4							.03	5	18
19														.24											19
20	1.22	21	.30	10	.74	30					.31	11					.24	5			.22	26			20
21									.05	1			.49	24					.12	14			.15	13	21
22	.05	11	.72	13									1.73	15	*.43	19					.40	10			22
23																	.75	15							23
24					.93	16			1.04	26			.07	5	1.12	8			.14	5					24
25																									25
26																	.05	2			.62	24	.25	11	26
27	2.50	25					.04	15																	27
28																			.04	16					28
29											.86	16	1.71	9							.36	8	.15	9	29
30									1.16	19															30
31													.28	2									†.18	13	31
Totals..	6.24	93	3.00	61	2.95	123	3.30	108	4.46	128	3.31	63	5.56	100	4.47	69	1.77	31	.49	45	7.09	163	4.99	126	Totals.

Totals for the year. Amount 47.63 inches. Duration 1,110 hours.

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SUMMARY.

Table showing the number of times that the total rainfall of each storm from 1877 to 1897, inclusive, at Hope Reservoir, has been the nearest to a series of amounts ranging from one-hundredth of an inch to eight inches.

Year.	Amounts in inches.																														Total rainfall for the year.	Year.
	1/100	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	1	1¼	1½	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾	4	4¼	4½	5	6	7	8		
1877....	1	2	2	4	3	8	3	0	4	3	4	2	4	4	8	0	1	1	0	1	0	0	0	0	0	0	0	0	0	48.80	1877
1878....	1	6	7	6	7	3	6	2	2	2	4	2	1	3	4	2	3	1	0	1	0	0	0	1	0	0	0	0	0	59.32	1878
1879....	3	11	12	3	9	9	5	4	4	1	3	1	6	2	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	47.64	1879
1880....	2	17	9	4	8	4	5	3	4	2	5	4	5	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	48.28	1880
1881....	4	14	8	7	7	5	3	5	2	2	4	1	4	1	3	0	2	1	0	0	1	0	1	0	0	0	0	0	0	52.96	1881
1882...	0	8	6	7	9	4	5	2	3	2	7	5	1	3	2	0	1	0	0	1	0	0	0	0	1	0	0	0	0	51.84	1882
1883....	4	15	13	7	5	3	4	8	4	3	4	3	3	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	45.71	1883
1884....	5	7	9	6	7	6	4	5	1	4	3	3	6	3	5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	57.50	1884
1885....	11	11	5	7	8	3	1	3	3	3	5	2	8	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	43.57	1885
1886....	5	14	8	4	5	4	5	5	3	3	4	5	1	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0	1	52.02	1886
1887....	4	16	11	4	4	6	4	6	4	1	3	4	7	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	50.98	1887
1888....	15	16	11	4	7	3	4	4	3	3	3	1	2	5	1	2	2	1	2	2	3	0	0	0	0	0	0	0	0	63.44	1888
1889....	14	17	9	7	4	3	6	5	1	4	0	8	2	4	5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	55.91	1889
1890....	9	20	8	13	6	3	4	3	2	2	4	8	4	3	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	50.60	1890
1891....	10	7	8	7	4	7	4	1	5	4	4	5	4	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	53.19	1891
1892...	10	23	9	5	4	3	3	6	1	1	3	2	5	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	37.39	1892
1893....	14	15	4	9	11	4	1	4	3	0	3	5	5	1	2	0	0	1	2	0	1	0	0	0	0	0	0	0	0	51.28	1893
1894....	12	17	8	6	5	7	6	1	2	4	2	2	6	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	42.27	1894
1895....	6	14	6	11	9	5	7	2	0	2	6	5	2	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	50.81	1895
1896....	8	15	9	4	11	4	6	3	4	4	3	2	3	1	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	45.91	1896
1897....	4	24	9	7	5	5	4	3	4	2	3	2	2	3	3	0	1	0	2	0	0	0	0	0	0	0	0	0	0	47.63	1897
Totals..	142	289	171	132	138	99	90	75	59	52	77	72	81	42	43	13	17	7	8	7	7	4	2	1	2	1	0	0	1	1,057.05	Totals.
Means..	6.8	13.8	8.1	6.3	6.6	4.7	4.3	3.6	2.8	2.5	3.7	3.4	3.9	2.0	2.0	0.6	0.8	0.3	0.4	0.3	0.3	0.2	0.1	0	0.1	0	0	0	0	50.34	Means.

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11	168	Cle
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15	207	"
15	175	"
12	117	Ha
17	303	Fal
17	165	Cle
11	142	Thı
13	216	Fal
11	109	"
18	189	Ha
29	484	Ral
20	325	Cle
18	180	"
39	385	Ral
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22	367	Cle
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kimum.	Total Movement.	
9	125	Clea
11	142	Fair
16	172	Thre
19	181	Fair
7	138	Clea.
20	226	Fogg
20	195	Fair.
11	158	"
11	166	"
15	158	Clea:
12	150	Misty
17	290	Thre:
28	464	"
38	445	Rain.
14	147	Clear
14	105	Fair.
9	96	Hazy
5	52	Fair..
11	116	" .
15	130	" .
12	182	Threa
21	278	"
19	224	Fair.
10	130	" ..
11	168	" ..
16	231	" ..
15	236	" ..
15	242	Threa
15	210	Rain..
11	136	Fair..
12	111	" ..
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WATER WORKS.

Water pipes have been laid in the following streets during the year 1897, which have been measured up, located and plotted, not including the new high pressure fire service.

Street.	Between what Points.	Sizes and Lengths of Pipes Laid.				
		6 inch.	8 inch.	10 inch.	12 inch.	16 inch.
Academy avenue	Eaton street north	279.52				
Aland	Cemetery street north	257.51				
Allens avenue	Blackstone and Rhodes streets				431.91	
Alton	Termination to Wisdom avenue	40.50				
Andrews avenue	Termination to Cliff avenue	255.07				
Babbitt	Black and Quaid streets	370.26				
Bark	Termination north	225.97				
Barrows street, Johnston	Termination to Dyer avenue	386.35				
Bedford	Admiral street west	155.98				
Berkeley	River avenue west	156.00				
Berkshire	Admiral street west	158.62				
Bissell	Elmwood avenue west	237.13				
Black	Termination near Babbitt street to termination near Hawes street	161.60				
Blackstone	Allens avenue and Eddy street	709.96				
Booth	C and D streets	181.88				
Brownell	Termination to Francis street	122.18				
Cactus	Babcock and Fisk streets	201.07				
Calder	At Huntington avenue	14.00				
Caroline	North Main street west	180.81				
Cedar	East of Murphy street west	48.75				
Cemetery	Termination to Aland street	139.57				
Chattlet street, etc., Johnston	Hartford avenue and city line				1,320.48	274.56
Cheshire	Salina and Sussex streets	240.00				
Cliff avenue	Andrews avenue northwest	131.15				
Commercial street, Cranston	Termination north	182.42				
Concord street, Johnston	Trenton and Whitehall streets		182.81			

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WATER WORKS—*Continued.*

Street.	Between what Points.	Sizes and Lengths of Pipes Laid.				
		6 inch.	8 inch.	10 inch.	12 inch.	16 inch.
Cory avenue, Cranston	Termination to Harris avenue	31.25				
Crescent avenue, Cranston	South of Wessex street south	158.10				
Curtis street, Cranston	Cranston street west	204.50				
Decatur	Gesler and Swiss streets	251.23				
Dixon	Elmwood avenue west	176.30				
Douglas avenue	Vale and Chad Brown streets	.....	386 13			
Duffy	Hawkins street south	126.88				
Dyer avenue, Johnston	Near Barrows street to Brown street	.....	470.28			
East approach to new passenger station	Francis street east and north	193.22				
East avenue	Near Hart street north	.....	.....	.....	120.25	
Egan street, etc	Manton avenue and city line	.....	.....	.....	1,132.51	
Eutaw street, Johnston	Webster avenue and Whitehall street	1,052.20				
Exeter	Summit avenue east	227.13				
Faith	Near Burrington street to Tyler street	259.10				
Fisk	East of Cactus street west	528.27				
Ford	Elmwood avenue west	173.45				
Fourth	North Main street east	96.70				
Fred	Pomfret street east	160.25				
Gaspee	Termination to West Exchange street	.....	.....	.....	183 42	
Germania avenue	At Montgomery avenue	6.00				
Germania avenue, Cranston	Montgomery avenue and Northup street,	194.00				
Goff	Eddy street east	.....	20.61			
Governor street, Cranston	Standish avenue west	170.60				
Grand avenue	South Angell street and Rhode Island avenue	595.81				
Grand avenue, Cranston	Termination east	144.44				
Harris avenue, Cranston	Cory avenue and Cranston street	384.58				
Hartford avenue, Johnston	Alverson avenue and Chattlet street	.....	245.44	.....	129.47	
Hartford avenue, Johnston	By-pass connection between high and low service at Alverson avenue	32.81				
Hartford avenue, Johnston	By-pass connection between high and low service at Pioneer street	38.47				

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WATER WORKS—*Continued.*

Street.	Between what Points.	Sizes and Lengths of Pipes Laid.				
		6 inch.	8 inch.	10 inch.	12 inch.	16 inch.
Hawkins	Tappan street northeast		1,203.12			
Hawkins	Termination to Duffy street		20 75			
Hempstead	Elmwood avenue west	161.86				
Highland street, Johnston	Webster avenue and Whitehall street	1,052.44				
Horton street, Johnston	Termination to Dyer avenue	627.67				
Huntington avenue	Near Plymouth street to Carter street	907.41				
Irving avenue	Slater and Taber avenues	1,940.08				
Irving street, Cranston	Burnham avenue east	196.66				
Jastram	Near Eaton street south	109.50				
Jefferson avenue	Jackson avenue west	124.00				
Kinsley avenue	At Old Gaspee street				3.38	
Ladd	East avenue east	102.13				
Larch	East of East avenue east	46.42				
Laurel Hill avenue, Johnston	Dyer avenue north	20.09				
Laurel Hill avenue, Johnston	Dyer avenue south	32.87				
Lawrence	Ridge street east	136.16				
Longmont	Termination to Yorkshire street	29.95				
Lorea	Termination to Sorrento street	121 42				
Maple street, Johnston	Webster avenue and Whitehall street	1,052.50				
Middle	Northeast of Union street northeast	22.61				
Mount Pleasant avenue	Pomona avenue and Chaucer street	158.40				
Myrtle street, Johnston	Webster avenue and Whitehall street	1,052.66				
Nichols	Near Livingstone street south		24.24			
Old Gaspee	At Woonasquatucket river bridge			120.69		
Pacific avenue	At Winthrop street	71.73				
Pacific avenue	Tyler street north	122.18				
Park avenue, Cranston	West of Pocasset avenue west				298.62	
Park avenue, Cranston	At Reservoir avenue				26.04	
Peace	Termination to Bucklin street	295 50				
Plain street, Johnston	Webster avenue and Whitehall street	1,052 20				

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WATER WORKS—*Continued.*

STREET.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.				
		6 inch.	8 inch.	10 inch.	12 inch.	16 inch.
Plainfield street, Johnston	By-pass connection between high and low service from Alverson avenue to Barrows street	91.53				
Plainfield street, Johnston	By-pass connection between high and low service from Horton street to Pioneer street	60.80				
Pomfret	Termination to Fred street	29.30				
Power	Termination to Gano street	171.58				
Prairie avenue, Johnston	Concord street and Union avenue	1,468.28				
Quarry	Charles street east	160.34				
Reid street, Johnston	At Barrows street	25.45				
Rill	Aurora and Boyd streets	121.36				
Riverdale avenue	Termination southwest	36.36				
Rowan	Termination north	60.56				
Salina	Hawkins and Cheshire streets	723.62				
Sheldon avenue, Johnston	Miller avenue southwest	193.00				
Smith	Near Old road southeast	27.49				
Smith street, Cranston	Termination to east of Allens avenue	153.25				
Sorrento	Termination to Lorea street	79.63				
Stanwood	Termination to Broad street	403.18				
Summit avenue	Termination to Exeter street	84.30				
Sussex	Cheshire and Longmont streets	635.42				
Swan avenue	Eaton street north	1,001.83				
Swiss	Decatur street east	124.70				
Tell	Vinton street west	211.45	1.69			
Tyler	Termination to Faith street	35.25				
Union avenue, Johnston	Termination to Sheldon avenue	123.33				
Upton avenue	Blackstone boulevard east	210.00				
Vale	Douglas avenue and Pekin street	60.02				
Warners lane	Stewart street west and south	326.40				
Waverly	Near Huntington avenue east	36.03				
Wealth avenue	At Academy avenue	13.92	1.70			
Webster avenue, Johnston	Concord street and Union avenue	1,469.02				

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WATER WORKS—*Continued.*

STREET.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.				
		6 inch.	8 inch.	10 inch.	12 inch.	16 inch.
Wentworth avenue	Termination west	3.17				
Whitehall street, Johnston	Concord street and Union avenue	1,467.54				
Whitmarsh	Elmwood avenue and Updike street	711.92				
Wisdom avenue	Alton street west	158.95				
Woodbine street, Cranston	Beckwith street south	.....	111.55			
York	Woodbine street south	180.81				
Yorkshire	Hawkins and Longmont streets	1,373.26				
	Totals in feet	31,561.17	2,668.32	120.69	3,646.08	274.56

The total amount of pipes laid during the year, included in the above table, is 7.2483 miles. The total number of miles that the water pipe system has been increased during the year is 7.1537 miles, not including the new high pressure fire service.

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Water pipes of the new high pressure fire service have been laid in the following streets during the year 1897:

Street.	Between what Points.	Sizes and Lengths of Pipes Laid.		
		12 inch.	16 inch.	24 inch.
Aborn	West Exchange and Washington sts.		1,579.23	
Aborn	Washington and Westminster streets.		374.40	
Back	Orms and Smith streets			1,180.71
Battey	Extended south to Westminster street.		20.09	
Broad	Winslow and Chestnut streets		363.44	
Canal	Smith and Steeple streets			1,657.67
Charles	Orms street and Randall square			397.86
Dean	Washington and Westminster streets.		345.63	
Dyer	Exchange and Eddy streets		2,023.53	
Eddy	Tallman street north		20.83	
Eddy	Weybosset and Ship streets		1,547.06	
Eddy	Westminster and Weybosset streets	310.32		
Exchange	Extended west to Weybosset street		24.80	
Exchange	Extended east to Dyer street		5.11	
Exchange	Exchange place and Westminster st.		271.30	
Exchange place	Dorrance and Exchange streets		724.26	
Exchange place	Exchange st. and Exchange bridge			283.65
Friendship	Eddy and Richmond streets	591.68		
Jackson	Washington and Westminster streets.		544.91	
Mathewson	Washington and Weybosset streets		750.26	
Orms	Back and Charles streets			80.92
Peck	Weybosset and Dyer streets		702.15	
Richmond	Weybosset and Ship streets		1,284.06	
Sabin	West Exchange and Aborn streets	915.74		
Ship	Dyer and Richmond streets.		309 09	
Smith	Back and Canal streets			231.03
Steeple	Canal street and Exchange bridge			211.56
West Exchange	Washington and Aborn streets		2,107.53	
Westminster	Battey street and west of Graves lane.		1,842.40	
Weybosset	Westminster, at Exchange, and Chestnut streets		2,305.43	
Winslow	Weybosset and Broad streets		348.41	
	Totals in feet	1,817.74	17,493.92	4,042.40

Pipes taken out:

Chattlet street, Johnston, from Hartford avenue northerly, 414.63 feet of 6-inch.

Kinsley avenue, at Old Gaspee street, 3.38 feet of 8-inch.

Madison street, from Huntington avenue southerly, 81.01 feet of 6-inch.

The above does not include pipes taken out temporarily, or pipes taken out and relaid without changing the length.

Thirty-three hydrants have been set during the year, not including the new high pressure fire service. The total

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number of hydrants to December 31, 1897, not including the new high pressure fire service, is seventeen hundred and sixteen, including eighty-four in the town of Johnston. This number does not include sixty-eight post hydrants which are set in the town of Cranston, and three post hydrants which are set in the town of North Providence.

The following table shows the location and sizes of pipes to which the hydrants set in 1897 are connected, not including the new high pressure fire service:

Location.	Sizes of Pipes.		
	6-inch.	8-inch.	12-inch.
Abo street, east side, 209 feet north of Cemetery street	1		
Alabama avenue, north side, 431 feet east of Virginia avenue	1		
Andrews avenue, north side, 168 feet west of Cliff avenue	1		
Babcock street, north side, 221 feet west of Bernard street	1		
Black street, east side, 121 feet south of Hawes street	1		
Blackstone street, north side, 302 feet east of Eddy street	1		
Brewster street, southeast corner of Sixth street	1		
Chalkstone avenue, northwest corner of Frederick street		1	
Chattlet street, Johnston, southeast corner of Congdon avenue			1
East approach to new passenger station, west side, 9 feet south of bridge	1		
Harris avenue, north side, 228 feet east of range east line of Brayton avenue			1
Hawkins street, northeast corner of Glasgow street		1	
Horton street, Johnston, northeast side, 287 feet southeast of Harlan street	1		
Huntington avenue, northeast corner of Madison street	1		
Irving avenue, north side, 184 feet west of Slater avenue	1		
Metcalf avenue, North Providence, northwest corner of Cottage avenue. (Post.)	1		
Osborn street, east side, 344 feet north of Chalkstone avenue	1		
Pacific avenue, southwest corner of Winthrop street	1		
Park avenue, Cranston, north side, 479 feet east of Narragansett avenue. (Post.)			1
Peace street, south side, 259 feet east of Bucklin street	1		
Power street, southwest corner of Gano street	1		
River avenue, east side, 474 feet north of Chalkstone avenue			1
River avenue, North Providence, southeast corner of Metcalf avenue. (Post.)		1	
River avenue, North Providence, east side, 45 feet south of Lyman avenue. (Post.)		1	
Ruggles street, east side, 186 feet north of Smith street	1		
Ruggles street, east side, on range north line of Sparrow street	1		
Salina street, north corner of Cheshire street	1		
Smith street, southwest side, 271 feet southeast of Old road	1		
Stanwood street, north side, 257 feet west of Broad street	1		
Sussex street, northeast side, 135 feet southeast of Cheshire street	1		
Swan avenue, east side, 196 feet north of Salter street	1		
Whitmarsh street, south side, 225 feet east of Elmwood avenue	1		
Yorkshire street, northeast side, 135 feet southeast of Cheshire street	1		
Totals	25	4	4

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The following table shows the location of the total number of eighty-nine new high pressure fire service hydrants set to December 31, 1897, and the sizes of the pipes to which they are connected:

Location,	Sizes of Pipes.		
	12 inch.	16 inch.	24 inch.
Aborn street, north corner of Westminster street		1	
Aborn street, northeast side, 179 feet southeast of Washintgon street		1	
Aborn street, east corner of Fountain street		1	
Aborn street, east corner of Sabin street		1	
Aborn street, northeast side, 37 feet southeast of Mason street		1	
Aborn street, northeast side, on range east line of Hicks street		1	
Aborn street, northeast side, 10 feet northwest of range west line of Bourn street		1	
Aborn street, northeast side, 87 feet northwest of Cove street		1	
Aborn street, southeast corner of West Exchange street		1	
Back street, west side, 3 feet south of range south line of Greeley lane			1
Back street, west side, on range south line of Lock street			1
Back street, west side, 181 feet north of Smith street			1
Broad street, northwest side, 59 feet southwest of range southwest line of Chestnut street		1	
Broad street, northwest side, 5 feet northeast of Winslow street		1	
Canal street, southwest corner of Smith street			1
Canal street, west side, on range south line of Church street			1
Canal street, west side, 7 feet north of range south line of Cady street			1
Canal street, west side, on range south line of Haymarket street			1
Canal street, west side, 1 foot north of range south line of Throop street, and 26 feet out from freight house. (In present street)			1
Canal street, west side, 2 feet north of range north line of Steeple street, and 11 feet out from freight house. (In present street.)			1
Charles street, west side, 41 feet south of range south line of Stevens street			1
Charles street, northwest corner of Orms street			1
Dean street, north corner of Westminster street		1	
Dyer street, west side, 6 feet south of Exchange street		1	
Dyer street, west side, 5 feet south of Pine street		1	
Dyer street, west side, 7 feet south of Hay street		1	
Dyer street, west side, 30 feet north of Clifford street		1	
Dyer street, west side, 2 feet north of Dorrance street		1	
Dyer street, west side, 85 feet south of gangway south of Dorrance street		1	
Dyer street, west side, 34 feet north of Ship street		1	
Eddy street, south corner of Washington street	1		
Eddy street, south corner of Fulton street	1		
Eddy street, west corner of Westminster street	1		
Eddy street, south corner of Pine street		1	
Eddy street, west corner of Friendship street		1	
Eddy street, west corner of Clifford street		1	
Eddy street, west side, 295 feet south of Clifford street		1	
Eddy street, northwest corner of Tallman street		1	
Exchange place, south corner of Exchange street		1	
Exchange place, south corner of McNeal lane		1	
Exchange place, east corner of Arcade street		1	
Exchange place, on range northeast line of first gangway northeast of Dorrance street, and 119 feet northwest of southeast line of Exchange place		1	

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Location.	Sizes of Pipes.		
	12 inch.	16 inch.	24 inch.
Friendship street, west corner of Page street	1		
Jackson street, west corner of Westminster street		1	
Mathewson street, south corner of Westminster street		1	
Peck street, west corner of Pine street		1	
Peck street, southwest side, 6 feet southeast of Friendship street		1	
Richmond street, south corner of Pine street		1	
Richmond street, southwest side, 8 feet southeast of Friendship street		1	
Richmond street, south corner of Clifford street		1	
Sabin street, west corner of Mathewson street	1		
Sabin street, north corner of Beverly street	1		
Ship street, east corner of Richmond street		1	
Washington street, east corner of Union street		1	
Washington street, east corner of Mathewson street		1	
Washington street, southeast side, 4 feet northeast of Snow street		1	
Washington street, southeast side, 4 feet northeast of Walker street		1	
Washington street, north corner of Greene street		1	
Washington street, north corner of Jackson street		1	
Washington street, north corner of Franklin street		1	
Washington street, northwest side, 129 feet southwest of range southwest line of Cressy lane		1	
Washington street, north corner of Dean street		1	
Washington street, northwest side, 90 feet southwest of range east line of Howard place		1	
Washington street, north side, on range east line of Oliver street		1	
Washington street, north side, on range east line of Lafayette street		1	
Washington street, northeast corner of Battey street		1	
West Exchange street, north side, on range northeast line of Union street extended		1	
West Exchange, north side, 138 feet east of range northeast line of Mathewson street		1	
West Exchange street, north side, on range west line of Mason street		1	
West Exchange street, north side, 143 feet east of range east line of Cove street, and 33 feet east of angle in curb		1	
Westminster street, southeast side, 5 feet southwest of Graves lane		1	
Westminster street, south corner of Stewart street		1	
Westminster street, northwest side, on range northeast line of Spring street		1	
Westminster street, northwest side, on range northwest line of Cranston street		1	
Westminster street, north side, 6 feet west of Lafayette street		1	
Westminster street, northeast corner of Battey street		1	
Weybosset street, south corner of Westminster street		1	
Weybosset street, west side, on range north line of Post Office court		1	
Weybosset street, west side, on range north line of Custom House street		1	
Weybosset street, northwest side, on range northeast line of Hay street		1	
Weybosset street, west corner of Orange street		1	
Weybosset street, north corner of Dorrance street		1	
Weybosset street, west corner of Eddy street		1	
Weybosset street, north corner of Union street		1	
Weybosset street, northwest side, 5 feet souhwest of Clemence street		1	

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Location.	Sizes of Pipes.		
	12 inch.	16 inch.	24 inch.
Weybosset street, north corner of Mathewson street	.....	1	.....
Weybosset street, west corner of Snow street	.....	1	.....
Weybosset street, south corner of Winslow street	.....	1	.....
Weybosset street, east corner of Fenner street	.....	1	.....
Totals	6	72	11

One hydrant has been taken out of Madison street, west side, 681 feet southwest of Potters avenue.

The total number of hydrants to December 31, 1897, including the new high pressure fire service, is eighteen hundred and five, including eighty-four in the town of Johnston. This number does not include sixty-eight post hydrants which are set in the town of Cranston, and three post hydrants which are set in the town of North Providence.

The location of the following hydrants has been changed:

Academy avenue, east side, 6 feet south of Wealth avenue, formerly on Academy avenue, east side, opposite south line of Armington avenue.

Back street, east side, 81 feet south of Lock street, formerly on Back street, east side, 56 feet south of Lock street.

Chattlet street, Johnston, east side, 218 feet north of Hartford avenue, formerly on Chatlett street, east side, 214 feet north of Hartford avenue.

Cyr street, northwest corner of Broad street, formerly on Broad street, east side, at north junction with Eddy street.

Eddy street, east side, 31 feet south of Indiana avenue, formerly on Eddy street, east side, 117 feet north of Ohio avenue.

Goff street, northeast corner of Eddy street, formerly on Eddy street, east side, 115 feet south of Willard avenue.

Vinton street, northwest corner of Tell street, formerly on Vinton street, west side, 50 feet south of Lee street.

Lines and grades have been furnished for changing the following hydrants:

1 on Alabama avenue.
1 on Arnold avenue, Cranston.
1 on Eddy street.
1 on Henderson street.
1 on Montgomery avenue.

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The above does not include changes that have been made when lines and grades were not furnished.

Lines and grades have been furnished for changing water pipes in the following streets:

Alabama avenue, 714 feet of 6-inch pipes lowered.
Allen's avenue, Cranston, 36 feet of 8-inch pipes lowered.
Arnold avenue, Cranston, 60 feet of 6-inch pipes lowered.
Black street, 162 feet of 6-inch pipes lowered.
Eddy street, 51 feet of 8-inch pipes raised.
Henderson street, 53 feet of 6-inch pipes raised.
Montgomery avenue, 320 feet of 8-inch pipes lowered.
North street, Johnston, 126 feet of 6-inch pipes lowered.
Osborn street, 43 feet of 6-inch pipes lowered.
Power street, 225 feet of 6-inch pipes lowered.
Power street, 16 feet of 6-inch pipes raised.
Ruggles street, 54 feet of 6-inch pipes lowered.
Ruggles street, 172.46 feet of 6-inch pipes relaid.

The above does not include changes that have been made when lines and grades were not furnished.

Following is a statement of the length of each size of water pipes in the ground December 31, 1897, considered as mains, not including the new high pressure fire service:

Sizes of Pipes.	Length in Feet.	Length in Miles.
36-inch	10,084.00	1.9098
30 "	59,912.70	11.3471
24 "	43,595.20	8.2567
20 "	9,626.59	1.8232
16 "	33,908.73	6.4221
12 "	90,323.46	17.1067
10 "	14,630.15	2.7709
8 "	255,887.88	48.4636
6 "	1,120,657.40	212.2457
Totals	1,638,626.11	310.3458

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6,357.89 feet of 4-inch pipes, not included in the above, are laid at the City Yard, Roger Williams Park, and North Burial Ground.

Included in the above table are the following approximate lengths of pipes which are laid in adjoining towns:

Cranston.		Johnston.		North Providence.		Pawtucket.		Warwick.	
Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.
36-inch...	1.9098	30-inch...	0.0587	30-inch...	0.0037	12-inch...	0.0003	8-inch..	0.1660
30 " ...	4.5134	16 " ...	0.0520	24 " ...	0.5386			6 " ..	1.8988
24 " ...	0.1307	12 " ...	0.3197	12 " ...	0.0154				
12 " ...	1.9406	8 " ...	6.9395	8 " ...	0.5064				
8 " ...	6.0552	6 " ...	11.3780	6 " ...	0.4759				
6 " ...	17.6124								
Totals..	32.1621	.....	18.7479	....	1.5400	... .	0.0003	.....	2.0648

Total length of pipes laid in adjoining towns, 54.5151 miles.

Following is a statement of the length of each size of the new high pressure fire service water pipes in the ground December 31, 1897:

Sizes of Pipes.	Length in Feet.	Length in Miles.
24-inch	4,188.58	0.7933
16 "	23,004.37	4.3569
12 "	2,215.76	0.4196
Totals	29,408.71	5.5698

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The approximate cost of laying ordinary water pipes, with appurtenances, except hydrants, and including iron at $30 per long ton, is:

For 4-inch	$0.498	per	foot.
" 6 "	0.725	"	"
" 8 "	0.973	"	"
" 10 "	1.244	"	"
" 12 "	1.593	"	"
" 16 "	2.403	"	"
" 20 "	3.359	"	"
" 24 "	4.454	"	"
" 30 "	6.348	"	"
" 36 "	8.540	"	"

The number of meters in use is 15,679.

The number of service pipes in use is 19,993.

The average daily use of water per service for the year 1897 has been 432 gallons.

The population of the city is estimated at 154,000, and the population supplied in the suburbs is estimated at 12,000.

The water receipts for 1897 were $490,652 47.

The net cost of maintenance for 1897 was $58,922.76.

The net cost of the water works construction from November 8, 1869, to January 1, 1898, is $6,371,132.12, upon which there has been a revenue for water sold of $7,853,486.79.

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Table showing the length in miles of water pipes laid each year since the construction of the water works was commenced, not including the new high pressure fire service:

YEAR.	Diameter in Inches.									Total for each year.	Total at the end of each year.
	6	8	10	12	16	20	24	30	36		
1870....	.....	.....	.....	.....	.....	.....	.....	1.8799	.3176	2.1975	2.1975
1871....	15.3309	3.5902	.7610	.7731	.6795	1.1375	2.9189	3.8938	.6305	29.7154	31.9129
1872....	29.9896	3.9473	.5038	1.2708	1.0564	.0093	.3169	1.2472	.....	38.2913	70.2042
1873...	14.0023	3.5199	.3373	2.5723	1.2258	.0956	.6343	1.1464	.....	23.5339	93.7381
1874....	8.5837	2.2131	.0689	.5422	1.1165	.0083	.4973	2.9741	.9451	16.9492	110.6873
1875....	7.0034	.8127	.2377	.9080	.3161	.....	.1670	.0478	.0167	9.5089	120.1962
1876....	7.8421	4.1472	.0813	1.3201	.5322	.....	.....	.....	.....	13.9227	134.1189
1877....	7.2277	1.6340	.....	.7305	.2100	.....	.....	.....	.....	9.8022	143.9212
1878....	3.5880	.9483	.....	.4521	.2963	.0458	.....	.....	.....	5.3305	149.0262
1879....	2.3008	.0501	.....	.0119	.....	.....	.....	.....	.....	2.3628	151.3890
1880....	2.8427	.2266	.1080	.....	.....	.....	.....	.....	.....	3.1773	154.5663
1881....	3.8886	.8171	.0262	.....	.....	.....	.....	.1063	.....	4.8381	159.4044
1882....	5.7777	.8547	.6709	.0119	.....	.....	.....	.....	.....	7.3151	166.7196
1883....	4.7739	.9652	.....	1.6513	.5471	.0017	.....	.....	.....	7.9391	176.6755
1884....	6.2073	.4385	.....	.2084	.....	.....	.....	.....	.....	6.8542	183.8366
1885....	4.1239	1.0314	.....	.3151	.....	.....	.....	.....	.....	5.4705	189.3045
1886....	3.7713	1.0593	.....	.1080	.....	.....	.....	.....	.....	4.9387	194.2298
1887....	5.9473	.5572	.....	.0522	.....	.....	2.6630	.....	.....	9.1597	203.3894
1888....	3.7247	1.4477	.....	.6160	.0326	.....	1.0861	.0037	.....	6.9109	210.3669
1889....	5.4581	1.2673	.....	1.1197	.....	.....	.0077	.....	.....	7.8529	218.0101
1890....	6.4927	1.5713	.....	.4384	.....	.5250	.....	.....	.....	0.0274	226.4792
1891....	10.7147	5.2277	.1582	1.1638	.....	.....	.....	.0485	.....	17.3125	243.5319
1892....	11.6072	2.3326	.....	.3559	.0467	.....	.....	.....	.....	14.3425	257.7153
1893....	12.6447	3.2813	.....	.1935	.2042	.....	.0254	.....	.....	16.3491	273.2634
1894....	8.1602	2.8566	.0002	.5873	.....	.....	.....	.....	.....	11.6042	284.7603
1895....	9.7946	1.1626	.....	.8547	.0532	.....	.....	.....	.....	11.8652	296.2754
1896....	5.3860	1.3160	.0986	.2480	.0541	.....	.....	.....	.....	7.1026	303.1921
1897....	5.9775	.5054	.0229	.6905	.0520	.....	.....	.....	.....	7.2483	310.3458

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The figures given in the last column of the table are the total lengths of useful water pipes, considered as mains, in the ground at the end of each year. The addition of the figures in the other columns of the table will not agree with the figures in the last column, as in a number of cases smaller sizes of pipes were temporarily laid in the first place, and larger sizes substituted later on, and at times pipes have been removed from the ground or abandoned.

The monthly and annual and the average daily and monthly consumption of water, including waste and leakage, during the year is shown by the following table:

Months.	Consumption per month.	Average monthly consumption.	Average daily consumption per month.	Average daily consumption for the year.
January	273,755,526		8,830,823	
February	238,505,090		8,518,039	
March	261,713,544		8,442,372	
April	241,942,602		8,064,753	
May	256,294,049		8,267,550	
June	267,060,335		8,902,011	
July	283,004,109		9,129,197	
August	269,681,474		8,699,402	
September	272,012,269		9,067,076	
October	271,461,387		8,756,819	
November	248,740,776		8,291,359	
December	267,628,465		8,633,176	
Total	3,151,799,626			
Averages		262,649,969		8,635,067

The amount of water consumed, shown in the above table, includes the supplying of about forty-seven and four-tenths

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miles of distribution pipes, located in adjoining towns, as well as supplying the greater part of the State Institutions at Cranston. A considerable quantity of water has been used during the year for irrigating at the Dexter Asylum, and also upon the improved sewerage system. Also, in the colder months, a large quantity of water has been run from the distribution pipes through small blow-offs at different points where the pipes are not sufficiently protected in crossing bridges and elsewhere, for increasing the circulation in order to prevent the water from freezing in the pipes.

The maximum consumption of water for any one day during the year 1897 was 12,065,000 gallons.

The following table shows the average daily consumption of water for each month and each year during the last twenty-one years:

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Average daily consumption of water in gallons, including waste and leakage, for each month and year, from January, 1877, to December, 1897, inclusive:

Years.	Months.												For the Year.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
1877..	2,269,832	2,258,338	1,836,037	2,250,747	2,526,668	2,936,860	2,914,214	2,762,598	3,012,462	2,607,809	2,217,243	2,303,127	2,492,032
1878..	2,156,809	2,147,463	2,202,755	2,325,865	2,854,235	2,891,205	3,876,307	3,118,868	3,171,755	2,845,889	2,392,822	2,378,500	2,701,404
1879..	2,825,437	2,931,292	2,586,154	2,383,999	3,224,556	3,479,951	3,782,391	3,524,332	3,319,664	3,375,997	2,894,286	2,966,254	3,110,279
1880..	2,938,209	2,863,525	2,895,195	2,965,488	3,676,664	5,054,378	4,180,428	3,921,078	3,818,019	3,670,098	3,347,852	3,224,278	3,517,264
1881..	3,538,158	4,066,555	3,134,102	2,985,615	3,536,239	3,811,259	4,048,632	4,457,984	4,156,185	3,919,993	3,595,037	3,377,005	3,716,937
1882..	3,295,114	3,267,352	3,057,839	3,046,466	3,239,567	4,025,461	4,692,148	5,094,632	3,840,315	3,399,707	3,327,138	3,647,242	3,665,427
1883..	3,942,644	3,743,629	3,910,265	3,430,723	3,825,896	4,638,322	5,238,463	5,183,282	4,705,763	3,813,735	3,674,931	3,575,148	4,143,798
1884..	4,237,205	3,874,254	3,902,594	3,426,872	3,791,939	4,695,192	4,380,545	4,061,473	4,819,765	4,237,719	3,670,442	3,994,750	4,083,373
1885..	4,484,038	4,733,054	4,796,437	4,102,809	4,098,028	5,443,199	5,561,358	5,014,507	4,924,512	4,371,991	4,196,599	4,706,766	4,730,556
1886..	4,824,687	4,750,859	4,827,113	4,333,738	4,526,374	4,928,957	6,023,126	4,877,404	4,936,173	4,619,404	4,245,827	4,937,718	4,822,125
1887..	5,065,692	4,903,199	4,837,961	4,406,544	4,902,265	5,164,882	5,579,502	5,005,397	5,082,313	4,801,669	4,401,758	5,102,318	4,939,982
1888..	5,435,297	5,792,769	5,391,102	4,893,637	4,843,517	6,171,341	6,508,645	5,871,233	5,322,467	5,337,683	5,175,399	5,511,404	5,518,691
1889..	5,721,836	7,338,677	5,803,799	5,271,386	5,754,508	6,144,568	5,691,032	5,590,145	5,525,370	5,406,870	5,167,128	6,144,844	5,786,961
1890..	6,335,263	6,788,927	6,278,058	6,843,612	6,602,267	6,896,124	8,113,876	7,134,931	6,725,043	6,278,268	6,084,380	6,826,615	6,743,047
1891..	6,351,130	6,532,755	6,723,630	6,672,833	7,550,679	7,749,487	7,726,381	7,779,031	7,572,560	7,533,784	7,317,136	7,691,110	7,272,070
1892..	7,619,986	7,830,188	7,615,924	7,266,370	6,767,882	8,371,779	9,304 373	9,114,400	8,632,279	7,995,487	7,647,730	8,479,663	8,058,414
1893..	9,305,613	8,847,526	8,737,623	8,073,662	8,583,598	9,915,808	10,778,434	10,502,028	9,452,852	8,789,960	7,851,148	8,608,893	9,128,563
1894..	9,107,465	9,067,594	9,089,355	8,727,006	9,971,564	11,280,817	12,394,564	10,758,910	10,217,683	10,199,980	8,864,783	9,075,540	9,904,434
1895..	9,025,870	9,820,436	8,604,297	7,699,583	8,776,297	9,491,859	8,993,597	9.495,129	9,102,791	8,150,562	8,192,790	9,559,831	8,905,085
1896 .	10,186,438	8,791,625	8,743,462	8,604,493	9,261,602	9,643,384	9,933,385	9,700,460	8,834,127	8,489,979	8,052,413	8,976,109	9,106,623
1897..	8,830,823	8,518,039	8,442,372	8,064,753	8,267,550	8,902,011	9,129,197	8,699,402	9,067,076	8,756,819	8,291,359	8,633,176	8,635,081

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The receipts for water each year since the commencement have been as follows :

Year.	Amount.	Year.	Amount.
1872	$41,003 51	1885	$313,561 21
1873	97,386 09	1886	322,084 67
1874	132,052 39	1887	339,513 60
1875	165,144 71	1888	346,731 56
1876	183,868 73	1889	377,497 97
1877	200,039 39	1890	401,140 86
1878	218,883 33	1891	404,553 84
1879	229,551 78	1892	409,421 21
1880	247,705 06	1893	427,546 51
1881	260,530 87	1894	432,383 97
1882	269,318 77	1895	471,069 97
1883	283,632 89	1896	485,187 33
1884	302,368 36	1897	490,652 47

The new Holly pumping engine and Babcock and Wilcox boilers that were contracted for in 1895, and erected at Hope station in 1896, were tested in February, and have been accepted by the city.

Lines have been marked in streets for laying water pipes equivalent to a distance of eleven and eighty-three one-hundredths miles, and grades marked equivalent to a distance of ten and forty-nine one-hundredths miles. The required office data relating to the grades were furnished by the highway department of the office when requested, and such as related to the laying out of streets were furnished by the street line department.

Estimates of the cost of laying about fifty-three thousand nine hundred and eighty-eight feet of water pipes have been made. The profiles of streets, from which to estimate the cost, have been prepared, with a few exceptions, by the highway department of the office.

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Two hundred and twenty construction plans for laying water pipes and a number of other plans of a miscellaneous nature, have been made. Six hundred and ninety service pipes have been sized. Estimates for payments for water pipes purchased under contract have been made. The water pipes that have been laid, including gates and hydrants, have been located, recorded, and plotted. Elevator and fire supplies have been located, recorded, and plotted. A topographical survey of a portion of the land bordering upon the northerly bank of the Pawtuxet river, which was commenced in December of last year, was completed in March. All special castings made for the new high pressure fire service have been inspected. Rules regulating private fire supplies have been drawn up. Plans of all private fire supplies, which are required to be furnished when applications are made for connecting the same with the city mains, have been examined. Graduated rods for determining the height of the river at Pettaconset have been made and set up. The daily, monthly, quarterly and yearly consumption of water of the Providence Water Works has been calculated, as well as the water used by the sewer maintenance department in pumping with siphons, and water furnished in large quantities, by special agreement, to manufacturers and others. The cost of pumping water and the duty of the pumping engines have been calculated, and much other work of a miscellaneous nature has been done.

The laying of the pipes of the new high pressure fire service, which was commenced in September, 1896, was continued during the winter, and the whole work was completed in October, with the exception of the setting of two hydrants in West Exchange street, where the grade is to be changed. Sixty-one fire hydrants of the system were put in service about the middle of August. The sizes and lengths of the pipes and the streets in which they are laid are as follows: 4,189 feet of 24-inch pipe, which connects with the Fruit Hill reservoir high service main at Randall square, in Charles, Orms, Back, Smith, Canal and Steeple streets, and

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in Exchange place to Exchange street;—23,004 feet of 16-inch pipe in Exchange place, Washington, Battey, Westminster, Weybosset, Winslow, Broad, Weybosset and Exchange streets to Exchange place; in West Exchange and Aborn streets from Washington street to Westminster street; in Jackson and Dean streets from Washington street to Westminster street; in Mathewson street from Washington street to Weybosset street; in Richmond and Ship streets from Weybosset street to Dyer street; in Eddy street from Weybosset street to Ship street; in Eddy, Dyer and Exchange streets from Tallman street to Weybosset street; in Peck street from Weybosset street to Dyer street;—2,216 feet of 12-inch pipe in Eddy street from Washington street to Weybosset street; in Friendship street from Eddy street to Richmond street; in Sabin street from West Exchange street to Aborn street.

The total length of the pipes of the new high pressure fire service of all sizes is 29,409 feet. To these pipes are connected eighty-nine hydrants, the static pressure at which ranges from one hundred and sixteen to eighty-five pounds per square inch, according to the elevation of the hydrant. The sizes of the pipes are such that under ordinary conditions the pressure will not fall below one hundred pounds per square inch in the centre of the business portion of the city when 5,000,000 gallons per twenty-four hours or 3,472 gallons per minute is being drawn from the pipes. Arrangements have also been made so that in the future, if it should be desired, a stationary pumping plant can be connected to the pipe and the pressure raised fifty pounds more per square inch than the pressure is at the present time.

The area of the district which should be able to derive a benefit from the new high pressure fire service, considering a distance of about four hundred feet on each side of the 24-inch pipes from Randall square to Exchange place, and a distance of about four hundred feet outside of the pipes laid around the outskirts of the system, is about fifty-six one-

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hundredths of one square mile. At a test in Exchange place in August, a stream of water being discharged at the rate of about 950 gallons per minute from a two and one-half inch ring nozzle, reached a vertical height of about one hundred and thirty-seven feet.

The pipes of the new high pressure fire service were laid 6.25 feet deep, which is about 1.6 feet deeper than the depth of the ordinary water pipes, in order to pass under the water pipes and other obstructions that were already in the ground, as well as a precaution against the freezing of the water in the pipes of the fire system, which will be more likely to occur on account of its comparative stagnation. As an additional safeguard against freezing, a by-pass has been located between the high and low service and three blow-offs connected at convenient points, all of which are supplied with gates which are opened more or less in freezing weather and a circulation produced throughout the entire fire service system.

Owing to a number of lead service pipes having sprung a leak due to electrolytic action, caused it was supposed by electric currents escaping from the tracks and wires of the Union Railroad Company, and in accordance with a resolution of the city council, approved March 2, 1897, investigations were made during June, July and August, in order to determine if the corrosive action of electric currents was affecting the water pipes of the city. Messrs. Stone and Webster, electrical engineers, who have had much practical experience in this line of work, were employed as experts to make the investigations. A brief summary of the conclusions given in their report is as follows :

"1st. That there is to-day in the city of Providence a district having an area of about seven square miles in which there is a tendency for the current to flow from the piping system to the street railroad tracks.

"2d. That in this district there are a number of streets on which the difference of potential between the pipes and

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the tracks is sufficient to cause serious electrolytic action if favorable conditions of soil and moisture are present.

"3d. That while it is impossible to say from the pipes which have been taken out or examined that serious electrolytic action is at present taking place in any part of the city, the tests and examination do show that such action is very probable."

Immediately after the report of the electrical engineers was received, the Union Railroad Company was notified and furnished with a copy of the report. Several conferences have been held in regard to the subject, and early in October the superintendent of the company stated that prompt action would be taken on their part towards preventing the city water pipes from being injured by electrolytic action in the future, so far as their tracks and wires were concerned, and quite recently he has again stated that the work for accomplishing the same was in progress.

Plans have been made for supplying a portion of Johnston and Cranston with high service pressure and the work has been carried out in accordance with these plans. The construction work was commenced about the middle of November and finished the latter part of December.

The work consisted in laying 2,857 feet of 12-inch and 245 feet of 8-inch pipes from the high service main already laid in Manton avenue, through Egan street, across the Woonasquatucket river, through Chattlet street and a portion of Hartford avenue, to the pipe already laid in Pioneer street and Alverson avenue. Also in order to make proper connections 1,238 feet of 6-inch pipes were laid in Barrows, Horton and Plainfield streets, and in Hartford avenue, and 470 feet of 8-inch pipes in Dyer avenue. The Ward flexible jointed pipes were used in crossing the Woonasquatucket river.

The new high service district in Cranston and Johnston, which was formerly in the low service, embraces an area of about one-half of one square mile and includes Rocky Hill

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and the immediate territory surrounding its base above an elevation of about ninety feet. It also includes Chattlet, Pioneer, Barrows and Horton streets and Alverson avenue, in which the supply pipes leading to the district are laid.

The total length of streets at the present time in which water pipes are laid under high service pressure in the Johnston new high service district is about 20,751 feet. The number of hydrants under high service pressure located in these streets is sixteen. The total length of streets in which water pipes are laid under high service pressure in Cranston is about 4,209 feet. The number of hydrants under high service pressure located in these streets is two. The static pressure in the pipes is increased about forty-four pounds per square inch above what it was when the pipes were in the low service. The pressure at the elevation of ninety feet, which was formerly thirty-five pounds, is now about seventy-nine pounds. At the elevation of one hundred and sixty feet the pressure which was formerly five pounds is now about forty-nine pounds. At the top of the hill where formerly water would not flow the pressure will be about forty pounds when pipes are laid there.

In the spring it is the intention to lay about 1,400 feet of 30-inch pipes in Plainfield street, Johnston, connecting with the 30-inch pipes already laid in Olneyville square and the 8 and 6-inch pipes in Plainfield and the intervening streets. The Johnston low service district will then be as well supplied with water as the low service of the city of Providence at corresponding elevations.

The worn-out coal tar concrete surfacing has been removed from the driveway back of the pumping station and replaced by an asphalt pavement laid upon a concrete foundation.

About three acres of land have been cleared and partially cleared at Fruit Hill reservoir, and some seeding has been done. Otherwise Fruit Hill reservoir is in its usual condition.

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The records relating to meteorological observations have been kept by this department.

The first of the five inserted plates shows a section of the water pipe joints especially designed for the new high pressure fire service; the second and third plates show the manner of securing the curved pipes of the new high pressure fire service having a curvature of ten degrees and over; the fourth plate shows the manner of securing branch caps; the fifth plate shows the method followed in laying 12-inch flexible jointed pipes across the Woonasquatucket river.

Following will be found a table giving a summary of water works statistics prepared in accordance with suggestions adopted by the New England Water Works Association:

SUMMARY OF STATISTICS.—REPORT OF 1897.

In accordance with suggestions adopted by the New England Water Works Association. Providence Water Works, Providence County, R. I.

Population of Providence,	154,000
Estimated population supplied in suburbs,	12,000
Date of construction,	1870 to 1876.
By whom owned,	City of Providence.
Source of supply,	Pawtuxet river, in the Town of Cranston.
Mode of supply,	

The water is pumped from the Pawtuxet river into a storage reservoir located upon a hill about one mile distant. From this reservoir it flows into the city by gravitation, directly supplying a second storage reservoir within the city limits, and also that portion of the city which is of sufficiently low elevation to be served by gravitation. To supply that part of the city of too high an elevation to be served by these reservoirs, a third reservoir is located in the Town of North Providence. The water is pumped by supplementary pumping machinery from the second reservoir above mentioned or from the mains, into the high service reservoir. This supplementary pumping machinery can also supply the high service district, if the reservoir should be out of service, by pumping directly into the mains.

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Special Design of Water Pipe Joints for High Pressure Fire Service.

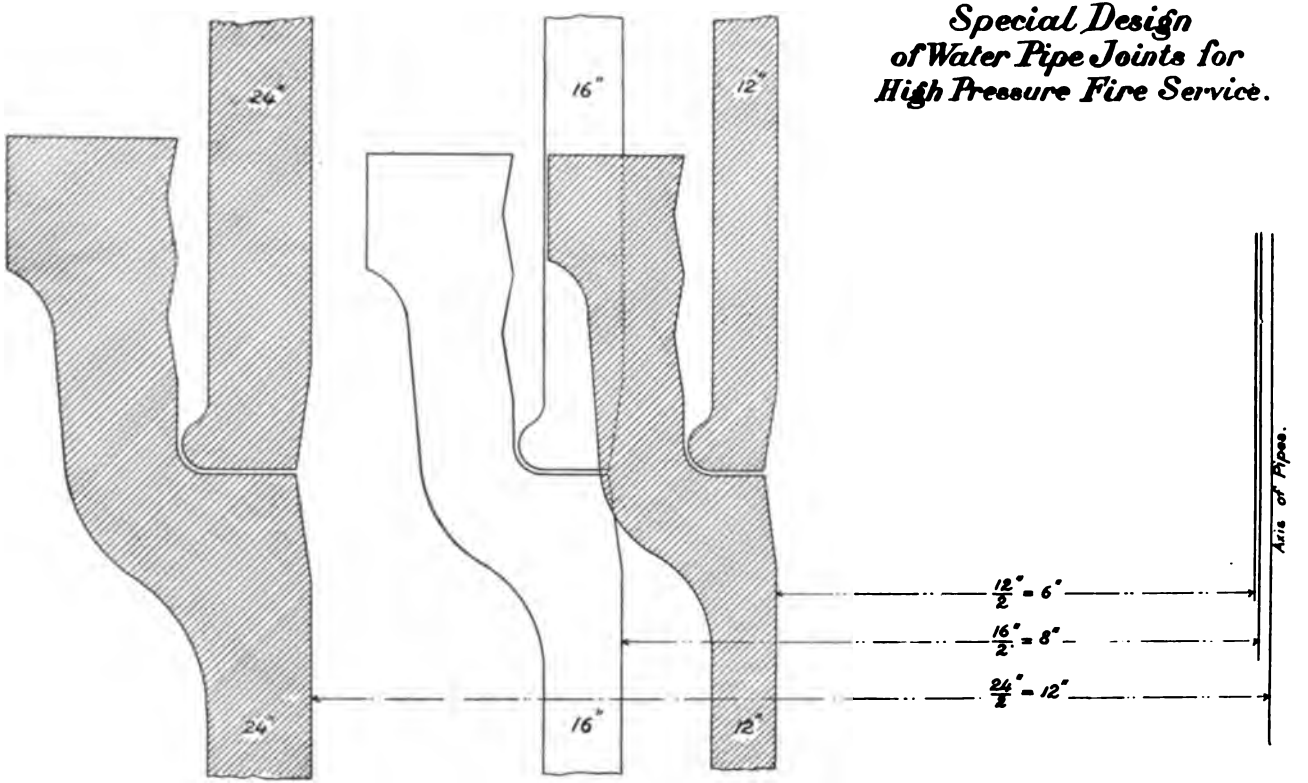

Plate I.

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Plate II.

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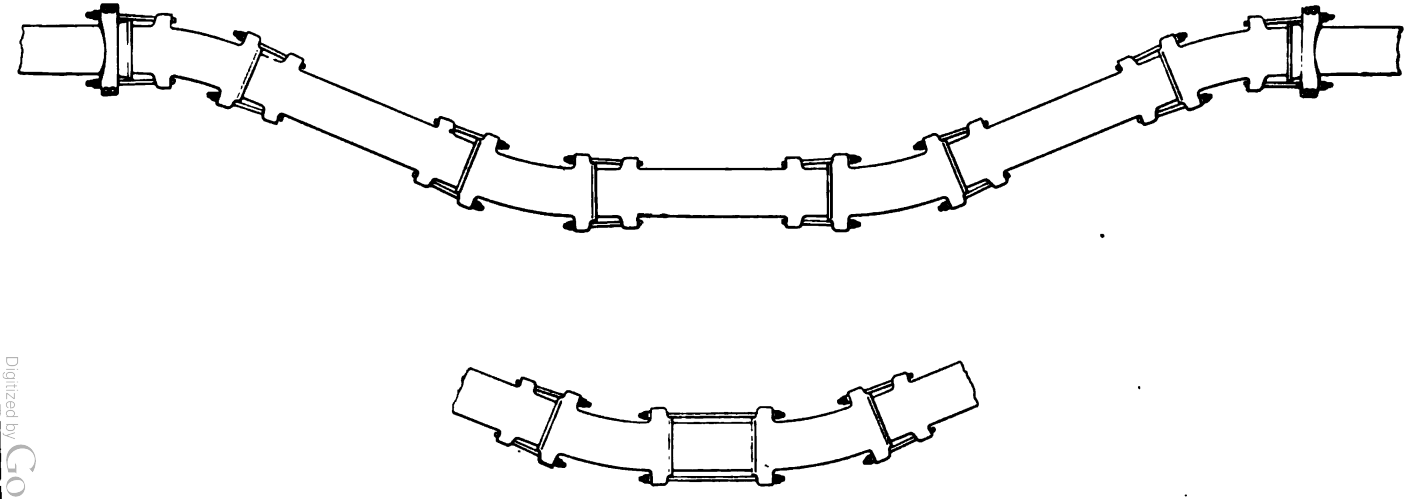
Plate III

Plan showing manner of securing Curved Pipe of High Pressure Fire Service.



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Specials for New Fire Service.

Plan showing manner of securing 16 inch Branch Caps.

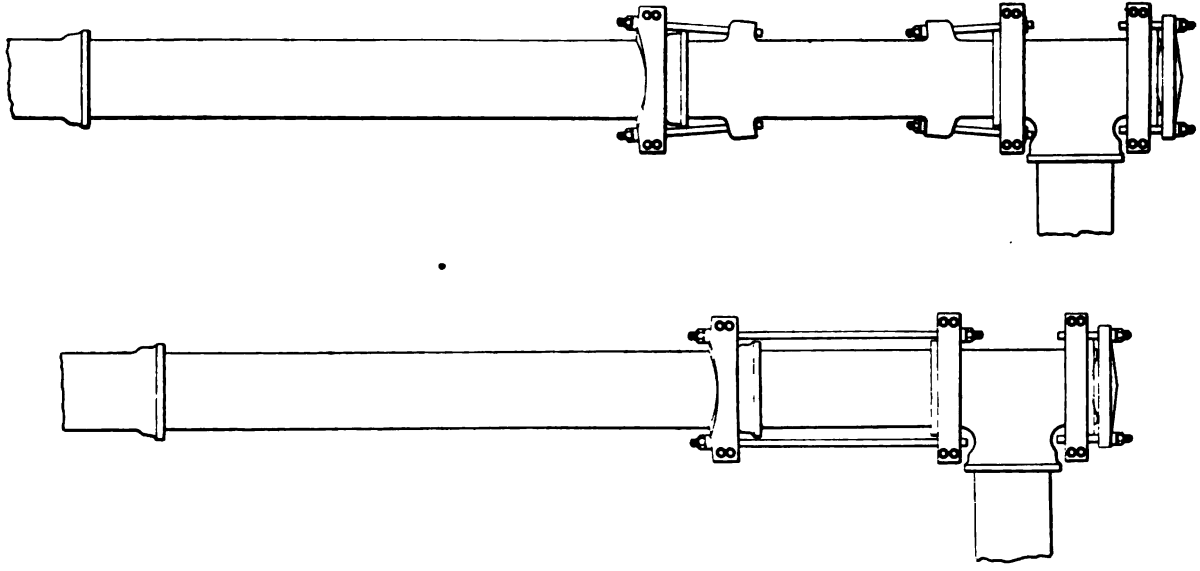

Plate IV

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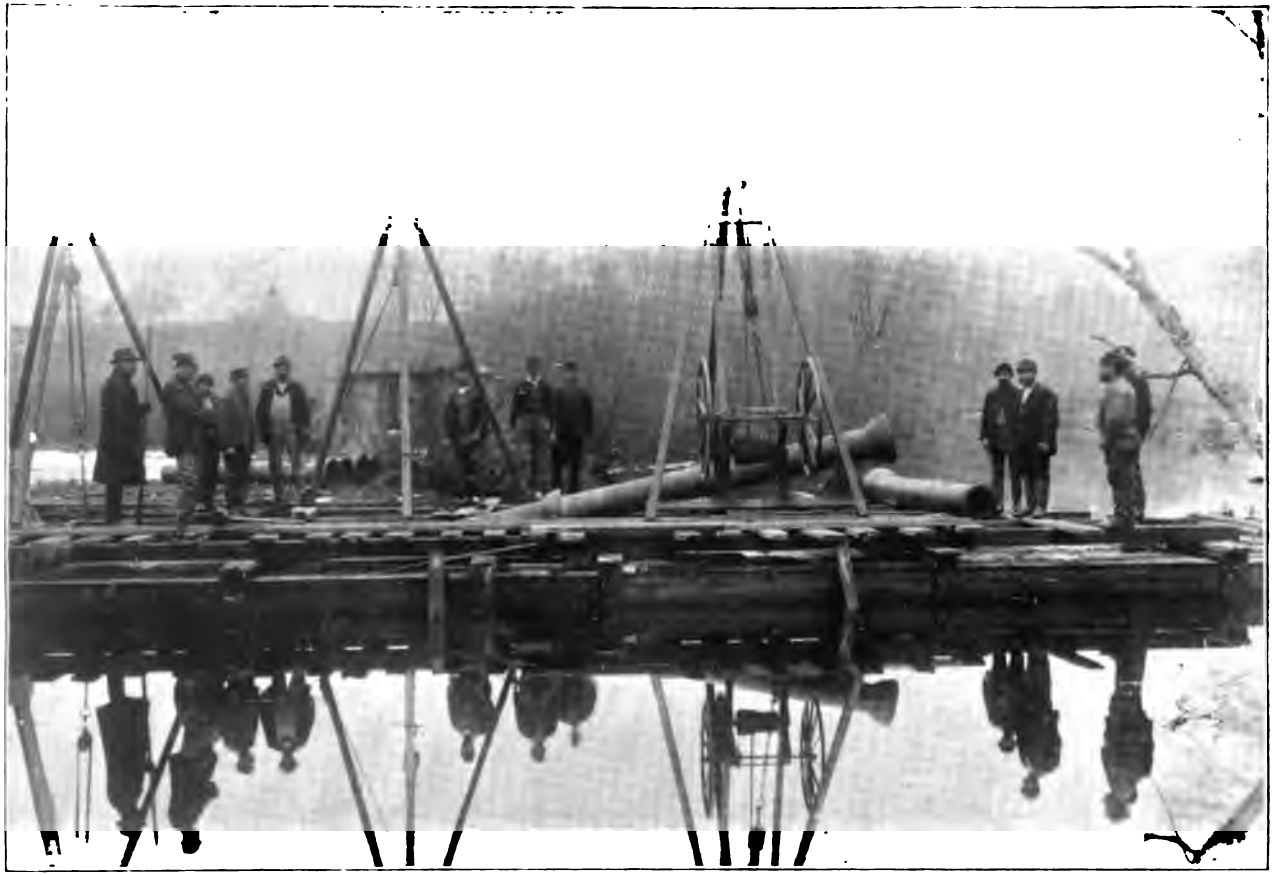

LAYING FLEXIBLE JOINTED WATER PIPE.

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In addition to the regular distribution pipes there is an independent high pressure fire system (deriving its supply from the high service), for protecting an area of about one-half of one square mile in the centre of the business portion of the city.

PUMPING.

1. Builders of pumping machinery,

a. Worthington Duplex engine, built by Henry R. Worthington.
b. Cornish engine, built by Paulding, Kemble & Co.
c. Corliss Vertical engine, built by George H. Corliss.
d. Worthington Triple Expansion engine, built by Henry R. Worthington.
e. Nagle High Service engine, built by the Providence Steam Engine Co.
f. Holly High Service engine, built by the Holly Manufacturing Co.

	Corliss.	Worthington Triple Expansion.	Nagle High Service.	Holly High Service.
2. Description of coal used,				
a.	Anthracite.	Anthracite and Bituminous.	Anthracite.	Anthracite.
c.	Pea.*	Pea.*	Egg.	Egg.
d.	Beaver Meadow.	Beaver Meadow and George's Creek Cumberland.	Wilkesbarre.	Wilkesbarre.
e.	Price, per gross ton delivered,			
	$4.48	$4.18	$5.32	$5.31
g.	Wood, price per cord,			
	....	$4.50	$5.00	$5.00
3. Coal consumed for the year, in pounds,				
	*35,500	4,913,750	40,501	923,090
4.	$\frac{\text{Pounds of wood consumed.}}{3}$ = coal in pounds,			
	....	500	187	2,203

* Pea coal for heating building.

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5. Total fuel consumed for the year, (3)+(4) in pounds,

35,500	4,914,250	40,688	925,293

6. Total pumpage for the year in gallons,

....	3,412,572,606	20,599,984	511,964,360

7. Average static head against which pumps work,

....	170.30	112.00	112.00

8. Average dynamic head against which pumps work,

....	175.88	116.66	139.00

9. Number of gallons pumped per pound of coal (3),

....	694	509	555

10. Duty in foot pounds per 100 pounds of coal, using following formula, making no deductions for starting or banking fires, heating buildings or anything else.

$$\text{Duty} = \frac{\text{Gallons pumped (6) x 8.34 (lbs.) x 100 x dynamic head (8).}}{\text{Total fuel consumed (5).}},$$

....	101,860,800	49,259,300	64,141,800

COST OF PUMPING, FIGURED ON PUMPING EXPENSES, INCLUDING COST OF FUEL, SALARIES, OIL, WASTE, AND OTHER SUPPLIES, CLEANING ENGINES AND HOUSES, AND REPAIRING MACHINERY AND BOILERS, WAS $15,769.56 FOR THE LOW SERVICE, AND $6,195.22 FOR THE HIGH SERVICE.

11. Per million gallons raised against dynamic head (8) into low service reservoir, the cost was, $4.62

Into high service reservoir (pumped twice, $4.62 + $11.63), $16.25

12. Per million gallons raised one foot high (dynamic), low service, the cost was, $0.0263

High service (pumped twice, $0.0263 + $0.0842), the cost was, $0.1105

Net cost of works to date, $6,371,132.12

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CONSUMPTION.

1.	Estimated total population of district at date,	166,000
4.	Total number gallons consumed for year,	3,151,799,626
7.	Average daily consumption,	8,635,067
8.	Gallons per day to each inhabitant,	52
10.	Gallons per day to each tap (Distribution 22),	432

DISTRIBUTION.

MAINS.*

1.	Kind of pipes used,	Cast iron.
2.	Size,	From 6 to 36 inches.
3.	Extended,	38,270.82 feet.
4.	Discontinued,	499.02 feet.
5.	Total now in use,†	310.3458 miles.
8.	Small distribution pipes, less than four inches, total length,	None.
9.	Hydrants added,*	33
10.	Number now in use,*	1,787
11.	Stop gates added,	92
12.	Number now in use,	3,216
14.	Number of blow-off gates,	32
15.	Range of pressure on mains at centre of city for day and night,	64 to 73 lbs.

NEW HIGH PRESSURE FIRE SERVICE.

Kind of pipes used,	Cast iron.
Size,	12, 16, and 24-inch.
Total now in use,‡	5.5698 miles.

* Not including new high pressure fire service.

† Includes 10,084 feet of 36-inch pipe, 561 feet of 30-inch pipe, and 695 feet of 24-inch pipe, which are force mains, and 19.66 feet of 30-inch pipe, and 19,478.46 feet of 24-inch pipe, which are used both as a force and delivery main.

‡ No connections of any description except for city fire hydrants.

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Hydrants now in use,	89
Stop gates now in use,	31
Number of blow-off gates,	4
Pressure on mains, at centre of business portion of city, for day and night,	114 lbs.

SERVICES.

16.	Kind of pipes used,	Lead from ½ to 1¼ inches, and cast iron.
17.	Size,	From ½ to 10 inches.
21.	Services added,	698
22.	Number now in use,	19,993
25.	Meters added,	893
26.	Number now in use,	15,679
27.	Elevator supplies added,	6
28	Number now in use,	122 of 4 and 6-inch, and 16 smaller supplies connected to house elevators.

REMARKS.

The Cornish engine was not run during the year.
The Worthington Duplex engine was not run during the year.
The Corliss Vertical engine was not run during the year.
The Worthington Triple Expansion engine was run on 313 days.
The Nagle engine was run on 17 days.
The Holly engine was run on 292 days.

The force employed in this department has been: Edmund B. Weston, assistant engineer in charge of water department; Irving S. Wood, James A. McKenna and Frederick C. Gage, principals, and Stephen A. Taft, assistant; Harry A. Briggs, H. Loring Huggins, Charles F. Janes, and Edward

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S. McGregor, principals, Emile Tintannè, draughtsman, William A. Brown, Leonard M. Cobb, Charles M. Cunliffe, William E. Farnham, George A. Lanphear, John Mahoney, Charles P. Mowry, Henry S. See, William H. Silloway, George E. Weeden, Jr., and Lewis G. Whittelsey, assistants, have also devoted a portion of their time to this department.

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SEWERS.

The following table shows the location, sizes and lengths of sewers constructed during the year:

Street.	Ordered. Resol'n No.	Ordered. Date.	Completed.	6-inch Drain to Curb.	Pipe Sewer. 8 inch	Pipe Sewer. 12 inch	Pipe Sewer. 15 inch	Iron Pipe. 8 inch	Iron Pipe. 12 inch	Circular Brick Sewer. 18 inch	Circular Brick Sewer. 20 inch	Circular Brick Sewer. 28 inch	Oval Brick Sewer. 24 x 36 inch	Totals.
Arlington av., Olney st. to Irving av.	125	Apr. 12, 1897	Sept. 28, 1897	632.	.....	56.90	674.81	.....	.....	455.00	.....	.....	417.64	1,604.35
Atwell's av., Woonasquatucket river to Valley st.	126	Apr. 12, 1897	Dec. 10, 1897	186.	312.73	.....	.....	.....	.....	.....	.....	.....	.....	312.73
Bacon, No. Main, Randall and Printery sts.	127	Apr. 12, 1897	Dec. 11, 1897	977.5	505.94	1000.27	.....	4.30	.....	3.33	349.08	696.43	.....	2,559.35
Blackstone Boulevard [east side], President av., N. 150 ft.	385	Oct. 1, 1897	Oct. 11, 1897	4.	.....	.....	150.00	.....	.....	.....	.....	.....	.....	150.00
Broad st., [west side], Public st. to Laura st.	180	May 4, 1897	July 20, 1897	30.	730.20	.....	.....	.....	.....	.....	.....	.....	.....	730.20
Calder and Madison sts., Potter's av. to Huntington av.	232	June 8, 1897	July 3, 1897	582.	1152.58	.....	.....	.....	.....	.....	.....	.....	.....	1,152.58
Chaffee st., Appleton st. to Manton av.	128	Apr. 12, 1897	Dec. 31, 1897	219.	262.68	26.00	410.87	.....	.....	.....	.....	.....	.....	699.55
Chalkstone and Regent avs. and Lisbon st.	389	Sept. 23, 1896	Apr. 26, 1897	902.	727.37	1640.25	.....	.....	12.00	.....	.....	.....	.....	2,379.62
Chalkstone av., No. Davis st. to Douglas av.	386	Oct. 1, 1897	Oct. 28, 1897	363.7	253.84	517.87	.....	.....	.....	.....	.....	.....	.....	771.71
Chalkstone av., present sewer near Claremont st. to Winthrop st.	387	Oct. 1, 1897	Oct. 29, 1897	344.	53.30	672.20	.....	.....	.....	.....	.....	.....	.....	725.50
Douglas av., Whipple st. to sewer in Vale st.	194	May 7, 1897	July 10, 1897	607.	649.45	557.87	.....	.....	.....	.....	.....	.....	.....	1,207.32
Doyle av., present sewer near East av. to Elmgrove av.	283	July 2, 1897	Sept. 27, 1897	1131.	684.85	720.30	461.79	.....	.....	.....	.....	.....	.....	1,866.94
Esten st., Orms st. to Smith st.	382	Sept. 23, 1896	Apr. 28, 1897	112.	362.72	.....	.....	.....	.....	.....	.....	.....	.....	362.72

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SEWERS.—*Continued.*

Street.	Ordered. Resol'n No.	Ordered. Date.	Completed.	6-inch Drain to Curb.	Pipe Sewer. 8 inch	Pipe Sewer. 12 inch	Pipe Sewer. 15 inch	Iron Pipe. 12 inch	Circular Brick Sewer. 20 inch	Circular Brick Sewer. 26 inch	Circular Brick Sewer. 34 inch	Circular Brick Sewer. 38 inch	Circular Brick Sewer. 48 inch	Totals.
Fillmore and Oregon sts	129	Apr. 12, 1897	Sept. 15, 1897	401.	262.67	523.09	.....	.....	.....	.....	.....	.....	244.26	1,030.02
Friendship st., present end sewer about 40 ft. southwesterly from Prince st	105	Apr. 6, 1897	Apr. 19, 1897	11.	.....	39.80	.....	.....	.....	.....	.....	.....	.....	39.80
Gallup st., Ocean st. to Rugby st	193	May 7, 1897	July 9, 1897	216.	460.98	.....	.....	.....	.....	.....	.....	.....	.....	460.98
Halsey st., 100 ft. east of Prospect st. to Brown st	284	July 2, 1897	Oct. 18, 1897	Rock	156.11	.....	.....	.....	.....	.....	.....	.....	.....	156.11
Henderson st., present end in Eddy st. to Providence river	130	Apr. 12, 1897	July 6, 1897	79.	.....	.....	.....	.....	.....	351.71	32.85	871.40	.....	1,255.96
Huntington av., Carter and Vineyard sts.	131	Apr. 12, 1897	June 28, 1897	745.	541.76	966.65	978.62	.....	.....	.....	.....	.....	.....	2,487.03
Irving and Broad sts., Emerson to Broad st. [west side], Irving st. to Elma st	456	Nov. 21, 1896	May 7, 1897	280.	227.30	709.62	.....	.....	.....	.....	.....	.....	.....	936.92
Irving and Humboldt ave	285	July 2, 1897	Aug. 28, 1897	1154.	721.79	844.05	5.20	.....	343.12	.....	.....	.....	.....	1,914.16
Link st., Bridge st. to South Main st	195	May 7, 1897	June 19, 1897	118.	.....	306.75	.....	12.00	.....	.....	.....	.....	.....	318.75
Miner, Sayles and Oxford sts. and Lexington av	134	Apr. 12, 1897	May 27, 1897	929.5	519.85	1,489.88	.....	.....	.....	.....	.....	.....	.....	2,009.73
Paine st., Cranston st. to Messer st	384	Sept. 23, 1896	May 6, 1897	265.	.....	582.82	.....	.....	.....	.....	.....	.....	.....	582.82
Peace st., summit west of Broad st. to Elmwood ave	388	Oct. 1, 1897	Nov. 15, 1897	400.	.....	914.13	.....	.....	.....	.....	.....	.....	.....	914.13
Pence and Bucklin sts	485	Dec. 4, 1896	June 16, 1897	553.	302.75	1,328.54	4.83	.....	.....	.....	.....	.....	.....	1,636.12

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SEWERS.—*Continued.*

Street.	Ordered. Resol'n No.	Ordered. Date.	Completed.	6-inch Drain to Curb.	Pipe Sewer. 8 inch	Pipe Sewer. 12 inch	Pipe Sewer. 15 inch	Circular Brick Sewer. 18 inch	Circular Brick Sewer. 24 inch	Circular Brick Sewer. 26 inch	Circular Brick Sewer. 30 inch	Totals.
Pekin and Osborn sts. and Franklin av., Chalkstone av. to Vale st.	458	Nov. 21, 1896	Aug. 13, 1897	1503.	1,776.80	1,392.30	.....	.....	.....	.....	.....	3,169.10
Power and Roger sts., Ives st. to Gano st., 75 ft. south of Power to sewer in Williams st.	309	July 13, 1897	Aug. 31, 1897	267.	681.21	.....	.....	.....	.....	.....	.....	681.21
Princeton av., Updike st. to Elmwood av.	286	July 2, 1897	Aug. 3, 1897	330.	.....	696.76	.....	.....	.....	.....	.....	696.76
Prospect st., Barnes st. to Halsey st.	197	May 7, 1897	Oct. 4, 1897	Rock	451.37	.....	.....	.....	.....	.....	.....	451.37
Smith st., Elmhurst st. to McCaughin st.	287	July 2, 1897	Oct. 5, 1897	889.	.....	186.50	394.28	347.96	942.29	236.05	.....	2,107.08
Smith, Violet and Ayrault sts.	132	Apr. 12, 1897	June 17, 1897	1179.	1,178.05	1,128.96	381.85	.....	.....	.....	.....	2,688.86
So. Angell st. and Butler av.	417	Oct. 26, 1897	Nov. 18, 1897	383.	239.30	628.09	.....	.....	.....	.....	.....	867.39
Wayne, Danforth and Mathew sts.	288	July 2, 1897	Nov. 26, 1897	551.4	1,037.65	286.06	.....	.....	.....	.....	.....	1,323.71
Waterman st., about 80 ft. east of Wayland av. to Butler av.	389	Oct. 1, 1897	Oct. 27, 1897	325.	210.24	497.60	.....	.....	.....	.....	.....	707.84
Wickenden st., about 120 ft. east of Hope st. to Hope st.	198	May 7, 1897	July 3, 1897	67.	126.84	.....	.....	.....	.....	.....	.....	126.84
Whitmarsh, Gilmore, D and Booth sts.	133	Apr. 12, 1897	July 2, 1897	499.	391.98	953.07	.....	.....	.....	.....	.....	1,345.05
Vale and Danforth sts., Douglas av. to Danforth st., Vale st. to about 400 ft. southerly	459	Nov. 21, 1896	July 9, 1897	413.	4.00	471.77	35.33	.....	.....	.....	599.35	1,110.45

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SEWERS.—*Continued.*

TOTAL LENGTHS.

	6-inch Drain to Curb.	Pipe Sewer.			Iron Pipe.		Circular Brick Sewer.									Oval Brick Sewer.	Totals.
		8 inch	12 inch	15 inch	8 inch	12 inch	18 inch	20 inch	24 inch	26 inch	28 inch	30 inch	34 inch	38 inch	48 inch	24 x 36 inch	
Total length in feet....	17,648.1	14,986.31	19,150.68	3,497.58	4.30	24.00	806.29	692.20	942.29	587.76	696.43	599.35	32.85	871.40	244.26	417.64	43,553.34
Total length in miles...	3.3425	7.127759			0.005360		1.115619										8.248738
Discontinued.....	.....	.....	27.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27.00
Total length in use in feet.....		14,986.31	19,123.68	3,497.58	4.30	24.00	806.29	692.20	942.29	587.76	696.43	599.35	32.85	871.40	244.26	417.64	43,526.34
Total length in use in miles.....		7.122646			0.005360		1.115619										8.243625

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The following is a statement of the total lengths of each size of regular sewers constructed to January, 1898:

Size.	Kind.	Constructed previous to 1897.	Constructed in 1897.	Totals.
66x72 oval	Brick	992.81		992.81
60x84 "	"	184.06		184.06
48x72 "	"	141.75		141.75
44x66 "	"	659.57		659.57
40x60 "	"	5,288.82		5,288.82
38x57 "	"	4,681.60		4,681.60
36x54 "	"	4,202.43		4,202.43
34x51 "	"	834.37		834.37
32x48 "	"	1,293.89		1,293.89
30x45 "	"	4,538.34		4,538.34
28x42 "	"	6,153.31		6,153.31
26x39 "	"	4,916.98		4,916.98
24x36 "	"	9,010.17	417.64	9,427.81
22x33 "	"	10,027.63		10,027.63
20x30 "	"	12,015.81		12,015.81
18x26 "	"	142.00		142.00
16x24 "	"	482.00		482.00
66 circular	"	4,025.55		4,025.55
64 "	"	1,216.71		1,216.71
60 "	"	530.44		530.44
56 "	"	1,448.00		1,448.00
54 "	"	268.86		268.86
52 "	"	657.31		657.31
48 "	"	4,178.08	244.26	4,422.34
42 "	"	777.12		777.12
40 "	"	630.05		630.05
38 "	"		871.40	871.40
36 "	"	1,823.99		1,823.99
34 "	"	1,146.53	32.85	1,179.38
32 "	"	313.19		313.19
30 "	"	2,393.37	599.35	2,992.72
28 "	"	769.71	696.43	1,466.14
26 "	"	1,046.05	587.76	1,633.81
24 "	"	9,269.09	942.29	10,211.38
22 "	"	13,808.95		13,808.95
20 "	"	23,080.33	692.20	23,772.53
18 "	"	26,866.09	806.29	27,672.38
16 "	"	7,387.61		7,387.61
18 "	Pipe	2,988.53		2,988.53
15 "	"	63,526.67	3,497.58	67,024.25
12 "	"	430,523.87	19,147.68	449,671.55
8 "	"	45,349.25	14,990.61	60,339.86
6 " iron	"	218.37		218.37
Total length in feet		709,809.26	43,526.34	753,335.60
" " miles		134,.4336	8.2436	142.6772

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The average depth of cut, nature of excavation and contract cost of labor per foot, on the different sizes of regular sewers built during 1897 have been as follows:

Items.	Average Nature of Excavation.	Average Depth of Cut.	Average Cost per Foot.
6-inch pipe in drains to curb line.	Fine sand, dry	10.50	$ .47
6 " " " " "	" " wet	10.50	.50
6 " " " " "	Sand and gravel, dry	10.50	.45
6 " " " " "	" " " wet	10.50	.49
8 " " in basin connections.	Fine sand, dry	8.00	.46
8 " " " "	" " wet	8.00	.50
8 " " " "	Sand and gravel, dry	8.00	.43
8 " " " "	" " " wet	8.00	.45
8 " " " "	Rock (in addition to stipulated price)	8.00	.40
8 " " sewer	Fine sand, dry	11.67	.74
8 " " "	" " wet	11.67	.60
8 " " "	Sand and gravel, dry	11.67	.72
8 " " "	" " " wet	11.67	1.20
8 " " "	Rock (in addition to stipulated price)	11.67	.45
12 " " "	Fine sand, dry	12.00	.75
12 " " "	Sand and gravel, dry	12.00	.76
12 " " "	" " " wet	12.00	.70
12 " " "	Filling, wet	12.00	1.65
12 " " "	Rock (in addition to stipulated price)	12.00	.01
15 " " "	Fine sand, dry	12.25	.85
15 " " "	Sand and gravel, dry	12.25	.78
15 " " "	Filling, wet	10.33	.60
15 " " "	Marl and boulders, dry	13.00	.80
18 " brick " single course	Sand and gravel, dry	12.50	1.00
18 " " " " "	Marl and boulders, dry	13.50	1.50
20 " " " " "	Fine sand, dry	12.67	1.00
20 " " " " "	Sand and gravel, dry	12.67	2.50
24 " " " " "	Sand and gravel, dry	13.00	1.00
26 " " " " "	Fine sand, wet	12.25	3.00
26 " " " " "	Sand and gravel, dry	13.17	2.00
28 " " " double "	Sand and gravel, dry	13.33	3.50
30 " " " " "	Sand and gravel, dry	11.75	2.25
34 " " " " "	Fine sand, wet	12.50	4.50
38 " " " " "	Fine sand, wet	10.00	4.50
48 " " " " "	Sand and gravel, wet	13.50	4.00
24x36 in. " " " "	Marl and boulders, wet	14.00	3.00
Average cost of building 348 manholes, each			10.80
" " " 136 catch basins, each			11.26
" " " 19 extra inlets, each			7.79
Rock excavation, per cubic yard, extra (stipulated price)			4.00

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Tabular statement in regard to all the sewers built under the appropriation for improved sewerage system :

Size.	Kind.	Constructed previous to 1897.	Constructed in 1897.	Total Length.
86½x94 Horse-shoe—single line..	Brick and rubble..	64.25	.....	64.25
86½x94 " " double " ..	Brick and concrete.	893.52	.....	893.52
75x108 " "	Brick { rubble..... concrete. ..	1,565.63	46.00	1,611.63
70x76 " "	Brick and rubble...	701.00	.....	701.00
50x72 " "	" " ...	949.14	.....	949.14
46x69 Oval.....	Brick and concrete.	773.00	.....	773.00
44x66 "	" "	703.00	.....	703.00
40x60 "	" "	1,033.00	.....	1,033.00
38x57 "	Brick....	1,525.79	.....	1,525.79
36x54 "	"	1,407.96	....	1,407.96
34x51 "	"	3,133.92	.....	3,133.92
32x48 "	"	1,431.09	.....	1,431.09
30x45 "	"	2,297.85	.....	2,297.85
28x42 "	"	4,508.34	.....	4,508.34
26x39 "	"	5,419.44	.....	5,419.44
22x33 "	"	1,289.44	.....	1,289.44
20x30 "	"	2,271.41	.....	2,271.41
18x27 "	"	2,218.78	.....	2,218.78
16x24 "	"	1,466.00	.....	1,466.00
110 Circular.....	Brick and concrete.	4,825.79	.....	4,825.79
108 "	" "	2,961.61	.....	2,961.61
102 "	Brick { concrete. .. rubble.....	7,009.49	.....	7,009.49
100 "	Brick and concrete.	2,376.53	.....	2,376.53
88 "	Brick.....	473.72	.....	473.72
80 "	Brick and concrete.	4,379.42	.....	4,379.42
78 "	Brick { concrete.... rubble.. ...	966.40	.....	966.40
74 "	Brick and concrete.	3,125.39	.....	3,125.39
70 "	Brick { concrete.... rubble.....	4,086.90	74.20	4,161.10
68 "	Brick and rubble...	4,239.49	.....	4,239.49
66 "	Brick and concrete.	1,363.55	.....	1,363.55
62 "	" "	4,898.55	.....	4,898.55
60 "	" "	3,587.60	.....	3,587.60
58 "	" "	1,079.67	.....	1,079.67
56 "	Brick...	646.99	.....	646.99
54 "	Brick { concrete.... rubble.....	2,932.14	432.00	3,364.14
52 "	Brick..	1,524.34	.....	1,524.34
50 "	Brick and concrete.	750.23	.....	750.23
50 "	Brick..... ..	.....	1,180.22	1,180.22
48 "	Brick and concrete.	5,272.92	.....	5,272.92
46 "	Brick.....	580.14	.....	580.14
44 "	Brick and concrete.	324.04	.....	324.04
42 "	Brick..... ...	186.50	.....	186.50
40 "	Brick and concrete.	446.29	....	446.29
38 "	" "	234.48	.....	234.48
36 "	" "	3,368.25	.....	3,368.25
34 "	Brick.....	303.60	.....	303.60
30 "	"	.....	47.70	47.70
28 "	"	46.83	.....	46.83
26 "	"	382.28	.....	382.28
24 "	"	3,677.78	139.36	3,817.14
22 "	"	620.10	.....	620.10
20 "	Brick and concrete.	2,016.54	64.00	2,080.54
18 "	Brick.....	500.35	.....	500.35
48 " double line.....	Iron.....	705.31	.....	705.31
48 " single "	"	253 20	.....	253.20
36 "	"	180.00	.....	180.00
18 "	Pipe.....	3,370.73	....	3,370.73
15 "	"	2,217.44	1,217.19	3,434.63
12 "	"	5,676.92	352.10	6,029.02
8 "	"	263.59	.....	263.59
6 "	"	330.30	.....	330.30
Total length in feet.....	....	115,837.96	3,552.77	119,390.73
" " miles.....	.....	21.9390	0.6729	22.6119

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Tabular statement in regard to sewers built under the appropriation for improved sewerage system during 1897:

Section or Street.	Ordered. Res'n No.	Ordered. Date.	Completed.	Size in Inches.	Kind.	Length.
Section No. 19.....	159	April 17, 1896.	Mar. 8, 1897.	75x108	Horse-shoe.	46.00
" "	"	" "	" "	70	Cir. brick..	74.20
" "	"	" "	" "	15	Pipe.....	1.00
" "	"	" "	" "	12	" aban-doned.	8.15
" " Rider.....	"	" "	" "	20	Cir. brick..	64.00
Connecting Laterals and Dyer street.....	84	Mch. 16, 1897.	Sept. 30, 1897.	15	Pipe.....	1,176.49
Connecting Laterals and Dyer street.....	"	" "	" "	12	"	360.25
Manton ave. and King st.	196	May 7, 1897.	Oct. 2, 1897.	50	Cir. brick..	1,180.22
" " "	"	" "	" "	30	" " ..	47.70
" " "	"	" "	" "	24	" " ..	139.36
" " "	"	" "	" "	15	Pipe.....	39.70
Section No. 20.....	572	Dec. 20, 1895.	Incomplete ..	54	Cir. brick..	432.00
Total length in feet.....	....	.....	....	.....	.....	3,552.77
" " miles.. ..	....	.....	... .	.....	.....	0.6729

From the preceding tables it will be seen that 8.243 miles of regular sewers have been built during the year 1897, of which 7.128 miles were of pipe, and 1.115 miles were of brick, making the total length to date 109.894 miles of pipe, and 32.783 miles of brick sewer.

In addition to the regular sewers, 0.673 miles of sewers have been built under the appropriation for improved sewerage, making a total of 8.916 miles of sewers built during the past year, and a total of 165.289 miles of sewers in the sewerage system.

One hundred and seventy-six catch basins, seventy extra

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inlets, and three hundred and eighty-six manholes have been built and connected with the sewerage system during the past year.

Two catch basins have been discontinued, leaving a total number of catch basins in use January 1, 1898, of three thousand nine hundred and fifty-nine.

The total number of manholes in use is seven thousand and fifty-eight.

The total length of six-inch drains extended to curb line during 1897, under Legislative Act of June, 1894, was 17,758.1 feet, or 3.363 miles, making a total of 9.562 miles laid to date under said act, and assessed for with the sewer assessment.

The number of house connections made in 1897 was nine hundred and five, making the total number connected to date thirteen thousand one hundred and ninety-eight. In addition to this there was granted for the year six hundred and twenty-three extension permits.

Estimates, surveys and plans have been made and lines and grades given for the sewers constructed during the year, as shown by the preceding tables.

Estimates, surveys and plans have been made for the following sewers, ordered but not yet constructed:

Broad street, from Marion avenue to Jillson street, and in Rugby street from Broad street to Jillson street.

Columbia avenue, from Broad street to Roger Williams Park, and in Roger Williams Park from Columbia avenue to sewer in Miller avenue.

Estimates have been made for sewers, not yet ordered, as follows:

Armington avenue, from westerly end thereof to Academy avenue.
Black street, from Orms street to Chalkstone avenue.
Doyle avenue, from Camp street to North Main street.
Garden street, from Franklin street to Jackson street.

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Ledge street and Smithfield avenue, near Cemetery street.
Milk street, from 100 feet north of Public street to Bogman street.
Reservoir avenue, from Elmwood avenue to Adelaide avenue.

In addition to the above, considerable time has been spent in the preparation of plans and estimates for extending the Moshassuck and Woonasquatucket valley lines of the improved sewerage.

Plans for sewer assessments on the following streets, in which sewers have been constructed, have been furnished to the Commissioner of Public Works:

Baxter street, from Norwich avenue to Potter's avenue, and in Gladstone street from Broad street to Baxter street, and in Ontario street from Melrose street to Hamilton street.

Broad street, from the north line of Marion avenue to Cyr street, and in Oxford street from Ocean street to Eddy street.

Burrington street, from Fenner avenue to Jackson avenue, and in Jackson avenue from Burrington street to Beckwith street.

Camp street, from Doyle avenue to Howell street.

Chalkstone avenue, from McCaughin street to a point about 150 feet east of the brook.

Dexter street, from Miller street to Cranston street.

Elmgrove avenue, from Olney street to Irving avenue, and in Irving avenue from Elmgrove avenue to Wayland avenue, and in Wayland avenue from Irving avenue to Elton street.

Felix street, from Chalkstone avenue to Valley street.

Francis street, from West Exchange street northerly.

Francis street, from Brownell street to Gaspee street, and Lincoln street, from Park street, and in Gaspee street from a point 800 feet east of Francis street to and across Promenade street.

Franklin street, from Washington street to Lyman street, and in Lyman from Franklin street to Dean street, and in Dean street from Lyman street to Washington street.

Globe street, from Beacon avenue to Plain street.

Grand avenue, from Angell street to Oriole avenue.

Grove street, from Almy street to Courtland street.

Harriet street, from Potter's avenue to Sayles street, and in Sayles street to Prairie avenue.

Harris avenue, from Grove street to a point north of Atwell's avenue.

Hope street, from Olney street to Thayer street.

India street, from South Water street to the Providence river, and in South Water street from near James street to India street.

Jewett street, from Park street to Holden street.

Liberty street, from a point 200 feet north of Smith street to Smith street.

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Melrose street, from a point 75 feet north of Laura street to Laura street, and in Broad street from Elma street to Early street. and in Early street from Broad street to Prairie avenue, and in Colfax street from the summit east of Ocean street to Rugby street.

Milk street, from Chester avenue to Bogman street, and in Richardson street from Prairie avenue to Rugby street, and in Prairie avenue and Broad street from Pavilion avenue to Byfield street.

President avenue, from the west line of Slater avenue to Blackstone Boulevard, and in Blackstone Boulevard from President avenue to the sewer in Blackstone Park.

Ruggles street, from Chad Brown street to Chalkstone avenue, and in Chalkstone avenue from Pekin street to McCaughin street.

South Water street, from end of present sewer in Market Square to near James street.

Thayer street, from Arnold street to Transit street.

University avenue, from Slater avenue to Blackstone Boulevard.

Wheaton street, from Bowen street to South Court street, and in South Court street from Wheaton street to Benefit street.

On all of the above named sewers the length and cost of drains laid to the curb lines have been made out and returned with the assessments.

This department has attempted to communicate with every owner of abutting property on the above named streets, in order to have the drains to curb located satisfactorily. In doing this six hundred and ninety-seven different owners have been reached, personally or by mail, in many cases requiring from two to four calls.

Section Nineteen of the Improved Sewerage System, mentioned in the report of 1896 as unfinished, was completed March 8, 1897, thereby making it possible to furnish, by lateral sewers constructed during this season, adequate drainage to a district about sixty acres in area which could not otherwise have relief. The total area which can be drained through Section Nineteen is about 1,200 acres. The increase of population in the western part of this district will soon make necessary an extension of the main line to the west beyond River avenue, and a right of way following the valley or approximately the line of the brook from Chalkstone avenue to River avenue, should be secured to connect with streets already or about to be platted.

During the year a sewer has been built in Manton avenue

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and King street, from Atwell's avenue to near Sheridan street, as part of the Improved Sewerage System, though at present used only for storm water flow. There is already a demand for lateral sewers to connect with this, and as some of the streets are quite thickly built up, the soil being such as to make cesspool drainage of little account, it will be necessary soon to connect the above sewer with the sewer in Aleppo street. A right of way has been secured, surveys have been made, and plans are in progress toward this end.

In the Moshassuck Division of the Improved Sewerage System, Section Twenty, from Smith street through the Canal street extension, and Bark street to opposite the Lewis dam, is in progress. Upon completion of this Section it will be possible, in the spring, by a short connection across the river and in Charles street, to divert from the stream the drainage from about sixty acres on Smith's Hill and the filth from the Fletcher Manufacturing Company.

The work of removing bulkheads from the main line of the Improved Sewerage System, mentioned in the last report as in progress, was completed in February and the work of connecting lateral sewers to the system was begun in April and completed, so far as the system is complete, September 30, 1897, so that, since that time, the pumps at the Ernest street Station have been taking care of the sewage, manufacturers' waste and a portion of the storm water from the Blackstone, Point, Elm, Dorrance and Dyer street and the Olneyville districts on the west side; from a part of Mount Pleasant and the south and west slopes of Smith's Hill on the north, and from the North Main, College, Crawford and Pike street areas on the east side through the siphon, thereby excluding from the river the sewage and manufacturers' waste from about 1,140 acres of the most densely populated section of the city. There remains, in the above mentioned districts, about 520 acres not yet provided with sewers.

The three Holly sewage pumping engines have been tested and accepted, and are running very smoothly.

The average daily, dry weather flow, from October 17,

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1897, to December 31, 1897, from the area drained as above described was 11,518,370 gallons per twenty-four hours, the dry weather Sunday flow has been 7,237,467 gallons per twenty-four hours, and the average daily storm flow has been 23,712,491 gallons per twenty-four hours for the same time.

The method of connecting the lateral mains that are tide-locked with the improved system is shown on the accompanying plates. Plate No. VI. of the Pike street connection shows the method of construction used where there is sufficient head room, where the gates are hung with long links. The dry weather flow drops through the slot shown in the manhole on the left, thence passes through the 12-inch pipe and connecting well to the main sewer leading to the pumping station. This connecting well, though used now only as a sump, is designed to hold a tank, valve and automatic cut-off operated by the rise and fall of the water in the lower main through the 4-inch pipe. The storm water passes through the tide gates and the 30-inch iron pipe on the right into the river. This same pipe, by raising the gate in the manhole on the right, can be used to flush the syphon which is a short distance from here, and the main leading to the pumping station. This feature is peculiar to Pike street, in all other cases the storm water passing through the tide gates and a continuation of the sewer direct to the river. Plate No. VII. of the Dorrance street connection shows the construction used where the sewer is large and the headroom small. The slot and connecting well for this are about 130 feet up the sewer from the gates.

There are in successful operation two sets of gates similar to Dorrance street, six sets like the Pike street, and seven connections with single gates, making a total of fifteen connections affected by tide water.

In addition to the flow from the 1,140 acres through the pumps to Field's Point, there is discharged, by gravity, at the same point, through the Elmwood main drainage sewer, the sewage and most of the storm water from about 1,090 acres of the South Providence, Elmwood and Benedict Pond

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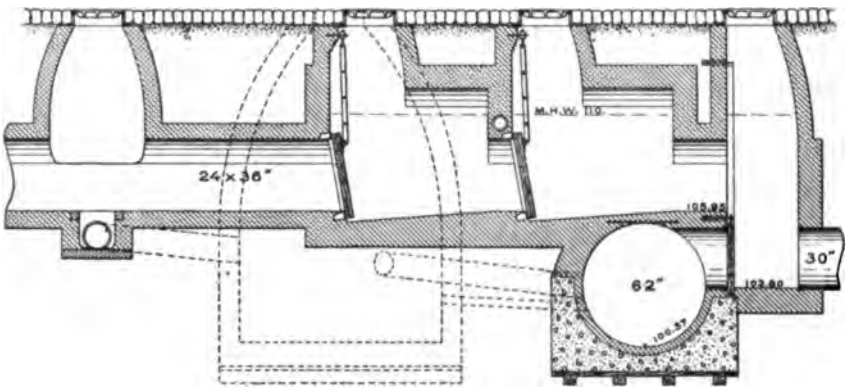
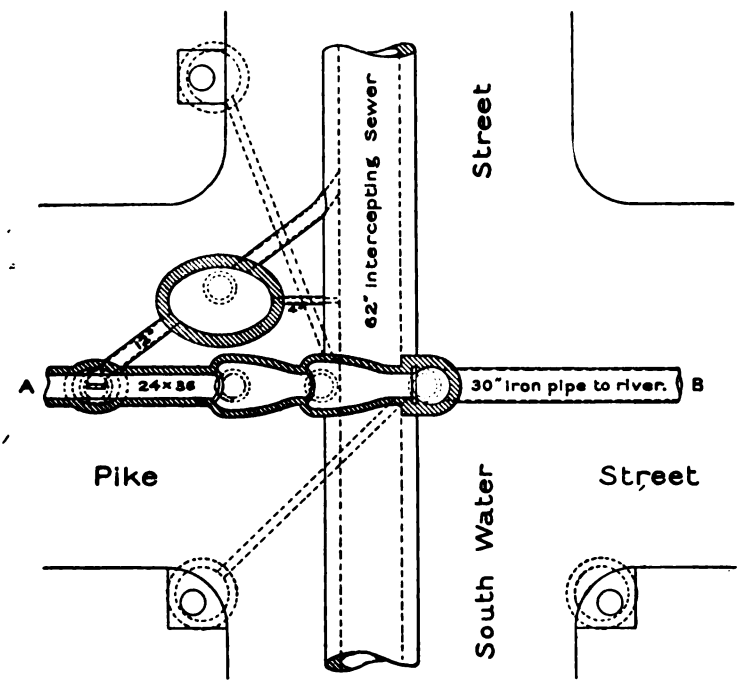
Tide Gate Chambers Connecting Well and Flushing Inlet at Junction of Pike and South Water Sts.



Sectional Elevation on line AB.

Scale



Scale of Plan

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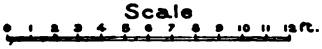
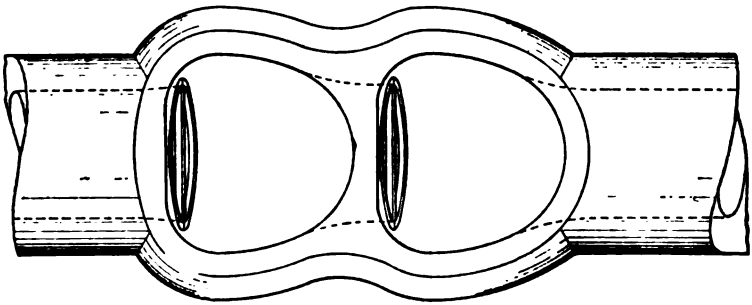
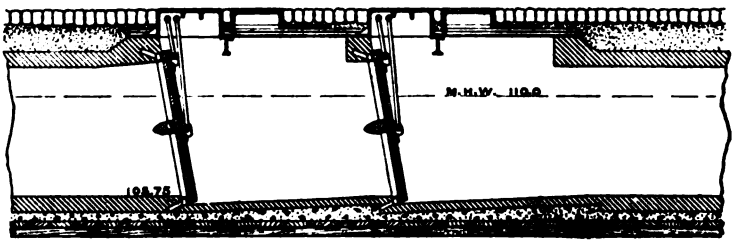
DETAILS OF DORRANCE ST. TIDE GATES

Scale

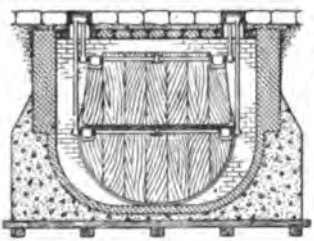




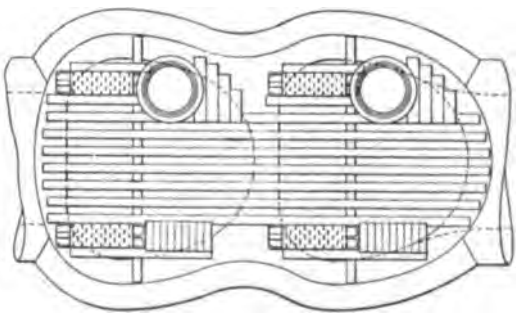
Top View without Iron Work



Longitudinal Section



Cross Section



Top View with Iron Work

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districts, a total of 2,230 acres now discharging into the river at Field's Point.

During the year considerable office work has been done in the way of perfecting plans for the precipitation tanks, and early in the season much field work was done preliminary to fixing the line for extending the Moshassuck Valley system toward Wanskuck.

The time of one principal has been mainly occupied by matters relating to the sewage pumping station.

The employés in this department have been Otis F. Clapp, assistant engineer in charge of sewer department until May, 1897; John E. Bowen, assistant engineer in charge of sewer department since May, 1897; Samuel B. Burnham, Walter G. Stackpole, Robert F. Brown, Herbert M. Knight, William G. Holden and Elbert E. Tift, principals; Walter L. Kendrick, Herbert M. Hatch, Walter G. Massie and William T. Webb, assistants; Frank Allen, mechanical engineer, and Robert H. Peck, draughtsman. Frederick H. Sibley and Emile Tintanné, draughtsmen; Chester C. Ford and George E. Weeden, Jr., assistants, have devoted a portion of their time to this department.

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HIGHWAYS.

The following streets have been curbed, the gutters paved, sidewalks graveled, and roadway macadamized or graveled. The specifications and plans for doing the work have been furnished to the Commissioner of Public Works, and the detail work marked out for the foreman on the street as requested:

Name of Street.	Between What Points.	Date Ordered.	Length in Feet.
Andem	Academy avenue and Canton street	Dec. 17, 1896	521
Beach	Park and Holden streets	May 21, 1896	588
Blackstone	Eddy street and Allens avenue	May 21, 1896	655
Brownell	Park and Francis streets	Apr. 15, 1897	222
Chambers	Huntington and Potters avenues	Sept. 17, 1896	598
Eddy, east side	Broad street and New York avenue	Apr. 15, 1897	1,107
" west side	" " " Morton street		
Grand avenue	South Angell and Angell streets	Nov. 19, 1896	808
Irving avenue	Taber avenue and Blackstone boulevard	Oct. 21, 1897	2,163
Lisbon	Regent and Chalkstone avenues	Sept. 19, 1895	863
Lyman	Franklin and Dean streets	Oct. 15, 1896	681
Milk	Public street and Chester avenue	Apr. 15, 1897	531
Miner	Potters avenue and Sayles street	Sept. 16, 1897	540
Ontario	Melrose and Hamilton streets	Nov. 19, 1896	520
Osborn	Chalkstone avenue and Vale street	Sept. 17, 1896	1,077
Regent avenue	Cornell street and easterly termination	June 3, 1897	375
Ruggles	Smith and Chad Brown streets	Oct. 15, 1896	873
Westfield	Harrison and Fuller streets	Sept. 17, 1896	380
Whitney	Elmwood and Alger avenues	Sept. 17, 1896	472
		Total	12,973

or 2.457+ miles.

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Catch basins were built in Whitney street at Elmwood avenue, and connected with the culvert crossing Elmwood avenue by a 15-inch pipe, in order to dispose of the surface water collecting at the intersection of these two roadways.

The following streets have been paved. The specifications and plans for doing the work have been furnished to the Commissioner of Public Works when required, also monthly estimates of the amount of work done when performed by contract. The detail work was marked out for the foreman on the street :

Name of Street.	Between what Points.	Length in Feet.	Remarks.
Delahunt	Branch avenue and south line of Henrietta street	238	Granite blocks and sand bed.
Eddy	Henderson and Public streets	1,700	Granite blocks and sand bed.
*Francis	Railroad street and 150 feet south of railroad bridge	650	Granite blocks and concrete base.
*Promenade	A point 269 feet east of east curb of Stillman street and the bridge over Moshassuck river	407	Granite blocks and concrete base.
*Street approaches to new passenger station	Near exchange place and a point northerly	278	Asphalt and concrete base.
*Street approach to new passenger station	Gaspee street and easterly termination.	882	Asphalt and concrete base.
	Total	4,155	

or 0.786+ miles.

*A portion of this work was performed by contract. Estimates were furnished the Commissioner of Public Works of the amount of work done by the contractor.

A water-way was paved from the easterly termination of the asphalt pavement near the easterly end of the passenger station to the Woonasquatucket river, over land belonging to the city; a length of 200 feet and an average width of 9 feet, in order to properly dispose of surface water and prevent the undermining of the pavement.

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The following streets have been practically brought to grade:

Name of Street.	Between what Points.	Length in Feet.
**Alabama avenue	Montgomery and Maryland avenues	1,539
**Allens avenue	Public and Henderson streets	1,452
Arlington avenue	Irving and Lloyd avenues	425
Blackstone	Eddy street and Allens avenue	655
Calder	Southerly termination and a point 160 feet north of Huntington avenue	270
Columbia avenue	Broad street and the Park line	2,063
Delahunt	Henrietta and Concannon streets	255
Henderson	Allens avenue and a point easterly	607
Huntington avenue	Dexter and Carter streets	709
**Montgomery avenue	Virginia and Maryland avenues	833
Pacific avenue	Tyler and Jefferson streets	176
Park avenue	A point 92 feet west of Mill street and a point westerly	1,024
*Sussex	Longmont and Cheshire streets	612
*Trenton	Ives and Gano streets	570
Virginia avenue	Massachusetts and Alabama avenues	178
West Park	Holden and Calais streets	552
**Woodward road	Branch avenue and Illinois street	1,442
	Total	13,362

or 2.530+ miles.

* Brought to grade by the abutters.
** Roadway macadamized or graveled.

By order of the Commissioner of Public Works, lines and grades have been given and marked out for removal of curbing, so as to make driveways into nine new streets. Also lines and grades have been given for resetting curbing in portions of fifteen streets, amounting to a total length of four thousand four hundred and sixty-one feet, or eight hundred and forty-four thousandths miles.

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Grades were marked for the contractor for laying sidewalks in ten streets.

Inlets have been placed at low points in the pavement as follows:

3 in Market square.
6 in Francis street.

Lines and grades of Allen's avenue, Henderson and Blackstone streets were given for fencing at the City Yard.

The section bounded by Crocker avenue, the railroad land and Madison street and extending easterly from the railroad about 260 feet was graded and the five houses standing thereon were adjusted to the new grade. This work was made necessary by the extension of Huntington avenue and the change of grade in Calder street.

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The following work, ordered by the Board of Aldermen or City Council, has not been commenced :

Name of Street.	Character of Work.	Between what Points.	Date Ordered.	Length in Feet.
Arlington avenue, (east side)	Curbstones to be set and gutters paved	Irving and University avenues	Dec. 16, 1897.	200
Ayrault	Curbstones to be set and gutters paved	Valley street and Chalkstone avenue.	Dec. 16, 1897.	1,000
Black	Curbstones to be set and gutters paved	Orms st. and Chalkstone avenue	Dec. 16, 1897.	626
Foster	Curbstones to be set and gutters paved	Broad and Pine sts.	Dec. 16, 1897.	398
Gaspee	To be paved with granite blocks	Cove street and the railroad bridge abutment	April 5, 1895.	130
Irving avenue	To be put in good condition	Grotto avenue and its easterly termination	Sept. 16, 1897.	1,426
Lexington avenue.	Curbstones to be set and gutters paved	Hamilton and Broad streets	Dec. 16, 1897.	950
Peace	Curbstones to be set and gutters paved	Elmwood avenue and Bucklin street	Sept. 16, 1897.	744
Power	Curbstones to be set and gutters paved	Ives and Gano streets	Oct. 21, 1897.	570
Roger	Curbstones to be set and gutters paved	Power and Williams streets	Oct. 21, 1897.	220
Wayne	Curbstones to be set and gutters paved	Nolan and Candace streets	Dec. 16, 1897.	498
West Park	Curbstones to be set and gutters paved	Holden and Senter streets	Dec. 16, 1897.	793
Whitmarsh	Curbstones to be set and gutters paved	Updike street and Elmwood avenue	Nov. 18, 1897.	668
		Total		8,223

or 1.557+ miles.

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Profiles of the following streets have been made for the purpose of defining grades. The contour of the center and both side lines of the street is shown at fifty feet stations, also the levels of the sills and ground lines of houses adjoining the street. The plan accompanying the profile shows the division of estates, ownership and houses:

Name of Street.	Between what Points.	Length in Feet.
*Adelaide avenue	Niagara and Emerson streets	600
*Almy	Penn and Gesler streets	480
Amherst	Putnam and Valley streets	1,082
Arlington avenue	Lloyd avenue and Olney street	1,000
Aurora	Harold street and River avenue	683
Baxter	Oxford street and Potters avenue	850
Berkshire	Douglas avenue and Admiral street	1,310
Black	Orms street and Chalkstone avenue	621
Calla	Broad and Eddy streets	425
Canal	Smith and Mill streets	260
Clarendon avenue	Cole and Grotto avenues	1,036
Clym	Douglas avenue and Berkshire street	1,100
Cole avenue	Irving and President avenues	805
College	South Water street and a point easterly	90
Columbia avenue	Broad street and Roger Williams Park	2,120
Craven	Waverly and Messer streets	465
Dyer	Westminster street and Dyer gangway	60
Francis	Exchange place and the river	850
Geneva	Andem street and Chalkstone avenue	524
Humboldt avenue	Wayland and Irving avenues	1,075
Hylestead	Pavilion and Thurbers avenues	550
Jillson	Broad and Eddy streets	600
Ladd	East and Morris avenues	395
Leonard	South Water street and a point easterly	90
Lincoln avenue	Cole and Grotto avenues	1,036
*Lloyd	Prospect and Thayer streets	1,250
Mill	North Main and Charles streets	492
Miner	Oxford street and Potters avenue	944
Olney	Morris and Arlington avenues	548
Ontario	Hamilton and Niagara streets	500
Park avenue	Elmwood avenue and Rhodes street	3,040
Pavilion avenue	Eddy and Hylestead streets	600
Promenade	Gaspee street and the railroad bridge	950
Regent avenue	Cornell street and Davis Park	386
Reynolds avenue	Prairie avenue and Burnside street	600
*Richardson	Prairie avenue and Plain street	1,250
Rosedale	Huntington avenue and Ellery street	641
South Water	College street and gangway south of Leonard st.	175
Street approaches (3)	To new passenger station	1,764
Upton avenue	Blackstone boulevard and Grotto avenue	325
Westminster	Dyer street and a point westerly	100
	Total	31,672

or 5.998+ miles.

* Old plans recopied.

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Profiles of the following streets have been made for the water department from which to estimate the cost of laying water pipes. The profile shows the contour and grade over the proposed pipe line, and a plan accompanies each profile showing divisions of estates, ownership and houses :

Name of Street.	Between what Points.	Length in Feet.
Academy avenue	Eaton and Salter streets	500
Academy avenue	300 feet south of Smith and a point southerly	200
Alton	Wisdom avenue and a point northerly	100
Andrews avenue	Leander street and a point westerly	400
Babbitt	Black and Quaid streets	360
Bark	100 feet north of Mill street and a point northerly	478
Bedford	Admiral and June streets	400
Berkley	River avenue and Harold streets	365
Berkshire	Admiral and June streets	450
Berkshire	Douglas avenue and March street	220
Bissell	Elmwood avenue and the railroad	650
Booth	C and D streets	140
Cactus	Babcock and Fiske streets	200
Caroline	North Main and Nashua streets	200
Cedar	Adie and Bradford streets	200
Cedar	Murphy and Sutton streets	150
Cheshire	Salina and Sussex streets	240
Cliff avenue	Andrews avenue and a point northerly	120
Commercial (Cranston)	Sheldon and Ocean streets	550
Concord (Johnston)	Trenton and Whitehall streets	200
Crescent avenue (Cranston)	Wessex street and a point southerly	250
Curtis (Cranston)	Cranston street and westerly termination	500
David	250 feet south of Balch street and termination	300
Decatur	Swiss and Gesler streets	200
Dixon	Stamford avenue and easterly termination	180
Dixon	Elmwood avenue and a point westerly	350
Douglas avenue		
Douglas avenue and Vale street	Eaton and Chad Brown streets	650
	Pekin and Chad Brown streets	350
Duffy	Luna and McMillen streets	275
Duffy	Hawkins street and a point southerly	150
Dyerville Road	25 feet south of North avenue and a point southerly	50
East avenue	Hart and Granite streets	200
Eutaw (Johnston)	Webster avenue and Whitehall street	1,000
Exeter	Summit and Glendale avenues	400
Faith	Balch and Beckwith streets	600
Faith	100 feet south of Burrington street and a point southerly	150
Fisk	Columbia avenue and a point 150 feet east of Cactus street	550
Ford	Elmwood avenue and a point westerly	200
Forest	East and Morris avenues	300
Fourth	North Main street and a point easterly	150
Fred	Pomfret street and a point easterly	150
Germania (Cranston)	Northup street and Montgomery avenue	160
Governor (Cranston)	Cleveland and Standish streets	300
Harris avenue (Cranston)	Cranston street and Cory avenue	380
Hawkins	Charles and Duffy streets	190
Hawkins	Tappan and Cornwall streets	1,000
Hawkins	Cornwall street and a point northeasterly	300
Hayes (Cranston)	Cranston street and Norton avenue	500
Hempstead	Elmwood avenue and the railroad	250
Highland (Johnston)	Webster avenue and Whitehall street	1,000
Irving avenue	Slater avenue and a point westerly	650

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Name of Street.	Between what Points.	Length in Feet.
Irving (Cranston)	Burnham avenue and Marlborough street	550
Jastram	400 feet north of Smith street and a point northerly	75
Jefferson avenue	Faith street and Jackson avenue	214
Johnston (Johnston)	Laurel Hill avenue and a point easterly	700
Ladd	East and Morris avenues	370
Larch	145 feet east of East avenue and a point easterly	50
Lawrence	Ridge street and a point easterly	150
Lincoln avenue	Cole avenue and Blackstone boulevard	700
Lowell (Cranston)	Burnham avenue and termination	800
Maple (Johnston)	Webster avenue and Whitehall street	1,000
Miller avenue (Johnston)	Sheldon avenue and a point easterly	150
Mt. Pleasant avenue	Pomona avenue and Chaucer street	200
Myrtle (Johnston)	Webster avenue and Whitehall street	1,000
Nichols	Livingstone street and a point southerly	260
Northup (Cranston)	Germania street and a point easterly	600
Norton avenue (Cranston)	Hayes and Charles streets	420
Pacific avenue	Tyler street and Jefferson avenue	175
Pacific avenue	Winthrop and Beckwith streets	450
Park avenue (Cranston)	Narragansett avenue and a point easterly	1,000
Plain (Johnston)	Webster avenue and Whitehall street	1,000
Prairie avenue (Johnston)	Concord street and Union avenue	1,450
Quarry	Charles street and a point easterly	200
Rill	Boyd and Aurora streets	100
River avenue	Admiral street and Douglas avenue	1,350
Rowan	450 feet north of Chalkstone avenue and a point northerly	50
Salina	Hawkins and Cheshire streets	720
Sheldon avenue (Johnston)	Miller and Randall avenues	400
Sorrento	90 feet south of Wadsworth street and Lorea street	100
Summit avenue	Exeter street and a point southerly	80
Sussex	Longmont and Cheshire streets	600
Swan	Camm street and a point westerly	250
Swiss	Decatur and Lawrence streets	200
Tell	Vinton street and a point westerly	300
Upton avenue	Blackstone boulevard and Grotto avenue	325
Warners lane	Stewart street and points westerly and southerly	300
Waverly	149 feet east of Huntington avenue and a point easterly	50
Webster avenue (Johnston)	Concord street and Union avenue	1,450
Whitehall (Johnston)	Concord street and Union avenue	1,450
Whitmarsh	Updike street and a point westerly	300
Winthrop	Faith street and a point easterly	50
Winthrop (Cranston)	Marlborough street and a point easterly	500
Wisdom avenue	Alton and Huron streets	250
Woodbine (Cranston)	Beckwith street and a point southerly	125
York	Woodbine street and angle	185
Yorkshire	Hawkins and Longmont streets	1,360
	Total	39,847

or 7.546+ miles.

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Grades and curb lines of the following streets have been defined for street construction. The curbing assessments have also been allotted to abutting estates where required:

Name of Street.	Between what Points.	Length in Feet.
Allens avenue	North and south of Henderson street	57
Andem	Academy avenue and Canton street	521
Beach	Holden and Park streets	588
Blackstone	Eddy street and a point easterly	15
Blackstone	Eddy street and Allens avenue	655
Brownell	Park and Francis streets	675
Calder	Huntington avenue and a point northerly	250
Chambers	Potters and Huntington avenues	598
Eddy	New York avenue and Broad street	1,107
Fenner avenue (east side)	At Reservoir avenue	25
Francis	Railroad street and a point southerly	650
Gaspee (east side)	Railroad bridge and a point southerly	126
Grand avenue	South Angell and Angell streets	808
Hamilton ave. (west side)	South Angell street and a point northerly	74
Henderson	East and west of Allens avenue	46
Humboldt ave. (west side)	Irving avenue and a point southerly	173
Huntington avenue (north side)	A point 32 feet west of Calder street and a point 93 feet east of Calder street	125
Irving avenue	Taber avenue and Blackstone boulevard	2,163
Lisbon	Chalkstone and Regent avenues	862
Lyman	Dean and Franklin streets	681
Milk	Public street and Chester avenue	531
Miner	Potters avenue and Sayles street	540
Ontario	Melrose and Hamilton streets	520
Osborn	Chalkstone avenue and Vale street	1,077
Planet (north side)	South Main street and a point westerly	81
Pond (south side)	Summer street and a point easterly	201
Regent avenue	Cornell street and Davis Park	375
Reservoir ave. (north side)	At Fenner avenue	25
Reynolds avenue	Burnside street and a point westerly	15
Ruggles	Smith and Chad Brown streets	878
Stanwood (north side)	Broad street and a point westerly	208
Street approaches (3)	To new passenger station	1,160
Sumner (east side)	Pond street and a point southerly	154
Waverly (south side)	Cranston street and a point westerly	114
Westfield	Harrison and Fuller streets	280
Whitney	Elmwood and Alger avenues	172
	Total	16,925

or 3.205+ miles.

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Roadway levels have been marked out upon the following streets :

Name of Street.	Between what Points.	Length in Feet.
Alabama avenue	At junction of Montgomery avenue	150
Broad	At junction of Eddy street	360
Canal	Market square and a point northerly	97
Eddy	West Exchange and Washington streets	342
Eddy	Henderson and Public streets	1,700
Eddy	At junction of Broad street	360
Fountain	West Exchange and Mathewson streets	488
Francis	Railroad street and 150 feet south of railroad bridge	650
Market square	Weybosset bridge and a point easterly	70
Promenade	West side of railroad bridge and the bridge over Moshassuck river	407
Street approach to new passenger station	Gaspee street and easterly termination	883
Street approaches to new passenger station (2)	A point 155 feet north of Exchange place and a point northerly	278
Westminster	Weybosset bridge and a point westerly	53
West River	Charles street and a point northerly	350
	Total	6,187

or 1.171+ miles.

Grades and curb lines of the following streets were marked for the sewer and highway departments for setting catch basin copings and chutes :

Allens avenue, near Henderson street.
Arlington avenue, between Irving avenue and Olney street.
Atwells avenue, near Unit street.
Ayrault street, between Valley street and Chalkstone avenue.
Bucklin street, between Daboll street and Princeton avenue.
Calder street, near Huntington avenue.
Chalkstone avenue, near Mt. Pleasant avenue.
Danforth street, between Smith and Vale streets.
Doyle avenue, between Morris and Elmgrove avenues.

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Elton street, near Humboldt avenue.
Henderson street, near Allens avenue.
Huntington avenue, between Seabury and Madison streets.
Irving avenue, between Elmgrove avenue and Blackstone boulevard.
Irving street, near Broad street.
Lexington avenue, near Niagara street.
Lisbon street, near Chalkstone avenue.
Lisbon street, near Regent avenue.
Lloyd street, near Arlington avenue.
Madison street, near Huntington avenue.
Montgomery avenue, near Broad street.
Olney street, near Arlington avenue.
Osborn street, between Chalkstone avenue and Vale street.
Peace street, between Bucklin street and Elmwood avenue.
Power street, near Gano street.
Roger street, near Williams street.
Smith street, between Oakland and Elmhurst avenues.
Vale street, near Osborn street.
Vale street, near Franklin avenue.
Wayne street, near Candace street.
West Exchange street, opposite Sabin street.

Vertical locations of street railroad tracks have been marked at intervals of about thirty feet for the laying of the rails in streets as follows:

Bassett street, between Chestnut and Hospital streets.
Canal street, between Market square and Drowne street.
Dyer street, between Post Office court and Pine street.
Eddy street, between Henderson and Public streets.
Francis street, between Railroad street and a point 150 feet south of railroad bridge.
Market square, adjacent to Weybosset bridge.
Point street, near Hospital street.
Randall street, between North Main and Printery streets.
Smith street, near Elmhurst avenue.
South Main street, near Wickenden street.
Westminster street, adjacent to Weybosset bridge.
Wickenden street, near South Main street.

A total length of 4,224 feet, or 0.80 miles.

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Grades of the following streets have been marked upon the ground at intervals of about fifty feet for street grading, or for the benefit of individuals owning abutting property:

Name of Street.	Between what Points.	Length in Feet.
Alabama avenue	Montgomery and Maryland avenues	1,539
Allens avenue	Public and Blackstone streets	904
Arlington avenue	Irving avenue and Olney street	1,455
Berkshire	Admiral and June streets	396
Black (east side)	Orms and Hawes streets	450
Blackstone	Eddy street and Allens avenue	655
Calder	Southerly termination and a point 160 feet north of Huntington avenue	270
Cheshire	Sussex and Cornwall streets	656
Columbia avenue	Broad street and Park line	2,063
Delahunt	Branch avenue and Concannon street	493
Francis	Exchange place and a point northerly	107
Henderson	Allens avenue and a point easterly	607
Huntington avenue	Dexter and Carter streets	709
Irving avenue	Cole and Taber avenues	1,398
Montgomery avenue	Virginia and Maryland avenues	833
Pacific avenue	Tyler street and Jefferson avenue	176
Park avenue	A point 93 feet west of Mill street and a point westerly	1,024
Power	Ives and Gano streets	570
Roger	Power and Williams streets	230
Street approaches to new passenger station (2)	Exchange place and a point northerly	591
Street approach to new passenger station	Gaspee street and easterly termination	882
Summer (east side)	A point 82 feet north of Broad street and a point northerly	125
Sussex	Longmont and Cheshire streets	612
Trenton	Ives and Gano streets	570
Virginia avenue	Massachusetts and Alabama avenues	178
West Park	Holden and Calais streets	552
Woodward road	Branch avenue and Illinois street	1,442
	Total	19,477

or 3.688+ miles.

In addition to the above table grades of four uncurbed streets have been marked at each estate for parties intending to concrete sidewalks. A total length of 2,410 feet or 0.456+ miles.

By request of the Commissioner of Public Works a cross section of the area bounded by Black, Hawes, Quaid and Babbitt streets was taken and an estimate furnished of the material above a given grade.

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Grades were marked for the excavation and also for relocating the houses.

The material in excavation was used in bringing the street approaches to the new passenger station to grade.

A cross section was made of lots abutting Globe street, near Hospital street, and an estimate furnished the Commissioner of Public Works of the amount of material removed. The material was used in grading Blackstone street.

Grades, either proposed or established, have been defined and marked out upon the ground for parties intending to build as follows:

Street.	For	Remarks.
Academy avenue	George N. Whitford	Established.
Alabama avenue	Frank B. Feltham	"
Alabama avenue	Home Investment Co	Proposed.
Alger avenue	Narragansett Real Estate Co	Defined.
Alger avenue	Alfred Z. Horton	"
Allens avenue	Providence Gas Co	Established.
Allens avenue	City of Providence	"
Amherst place	John E. Conley	Proposed.
Anthony avenue	Josephine H. White	Defined.
Atlantic avenue	George A. Jepherson	Established.
Atlantic avenue	G. M. Baker	"
Ayrault	James Burke	Defined.
Babbitt, 3 applications	Bernard McGuinness	Proposed.
Babbitt	Mrs E. A. Shepard	"
Babcock	William E. Watson	"
Bedford	Francis H. Mellor	Defined.
Bedford	Samuel C. Northup	"
Berkley	James McPhillips	Proposed.
Berkshire	Thomas A. Crawford	"
Black	Bernard McGuinness	"
Black	Mrs. E. A. Shepard	"
Brenton avenue	Superintendent of Public Buildings	Defined.
Bucklin	Robert Knight	Established.
Calais	Laureldale Chemical Works	"
Calais	James B. Hogan	"
Calder	Emma E. Dodge and Flora E. Blake	Changed.
California avenue, 4 applications	Home Investment Co	Defined.
Calla	August B. Benson	Proposed.
Cedar	Nicola Cappelo	Defined.
Chalkstone avenue	Superintendent of Public Buildings	Established.
Cheshire	Jesse H. Smith	Defined.
Cheshire	John Osborne	"
Cheshire	Patrick Gibbons	"
Cheshire	Margaret F. Shanley	"
Concord	Edward Kiernan	"
Custom House	Humphrey Almy estate	Changed.
Douglas avenue	John J. Hickey	"
Duffy	Geovanni Caldarelli	Defined.
Dyer	Humphrey Almy estate	Changed.

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Street.	For	Remarks.
Dyer	George E. Roberts	Changed.
Dyerville Road	Arthur Hibberd	Proposed.
Dyerville Road	Anna Murphy	Defined.
Eames, 2 applications	Charles A. Franklin	"
East avenue	John L. Kehoe	Established.
East avenue	J. J. Hopkins and Henry Zulil	Changed.
East avenue	Robert Paterson,	Proposed.
Eleventh	Edward S. Cook	Defined.
Elmwood avenue	Sarah A. Dow	Proposed.
Ernest	Emma A. Barnes estate	Established.
Eudora	J. W. McCrillis	Defined.
Fifield avenue	G. W. Sabre	Proposed.
Ford	Walter A. Fresbrey	Defined.
Fourth	Henry Baron	"
Geneva	Joseph Kelley	Proposed.
Grand	Mary E. Knight	"
Grand	J. P. Jones and wife	"
Hawkins	Narragansett Real Estate Co	Established.
Henderson	City of Providence	Proposed.
Highland avenue	Edward S. Cook	Defined.
Highland	Owen Rice	"
Huntington avenue	Emma A. Handy	Established.
Hylestead	W. T. Maxfield	Proposed.
Indiana avenue	Home Investment Co	Defined.
Irving avenue	Timothy O'Connor	"
Ladd	Robert Paterson	Proposed.
Lancaster	Charles Galligan	Defined.
Lawrence	Peter Figaelo	"
Lawrence	Peter Figaelo	Changed.
Lexington avenue	Minerva E. Bliss	Established.
Lexington avenue	William A. Buhler	"
Manomet	John H. Robbins	Defined.
Massachusetts avenue, 2 applications	Home Investment Co	"
Matilda	James Stanley	Established.
Melrose	Mabel J. Root	"
Montague	Superintendent of Public Buildings	Defined.
Montgomery avenue	Augusta C. Garst	Established.
Morris avenue	Charles A. Franklin	"
Murphy	Nicola Cappello	Proposed.
Mt. Pleasant avenue	Thomas Thompson and wife	Defined.
Mt. Pleasant avenue	Superintendent of Public Buildings	"
Mt. Pleasant avenue	Edmund R. Langhorn	Proposed.
Nashua	Emma G. Long	Defined.
Newark, 2 applications	John H. Armstrone	"
Ohio avenue	David P. Eddy and wife	"
Ohio avenue, 2 applications	Home Investment Co	"
Ohio avenue	John O'Connell and wife	"
Ontario	Mary A. Sanborn	"
Ontario	H. L. Bassett and wife	"
Ontario	James E. Taylor	"
Ontario	Joseph Baker, Jr	"
Oriole avenue	Mrs. John F. Allen	Changed.
Osborn	Hugh F. Tierney	Established.
Pacific avenue	William E. and Hannah J. Slattery	Defined.
Pacific avenue, 3 applications	Otto Steidl	"
Peace	Walter A. Presbrey	Proposed.
Pleasant	E. A. Hughes and M. A. Doran	Changed.
Pleasant	Catherine M. O'Connor	"
Power	James Griffin	Established.
Pratt	Lawrence Guild	Changed.
Rathbone	City of Providence	Proposed.
Reynolds avenue	Annie Mulvey	"
Richardson	Marcia A. Goodell	Established.
Robin	Frank Murray	Proposed.
Rosedale, 2 applications	Jesse F. Barker	Defined.

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Street.	For	Remarks.
Rosedale	Oliver Roy	Defined.
Rosedale	Edward C. Chapman	Proposed.
Sackett	Mabel J. Root	Defined.
Salina	Samuel C. Northup	"
Salina	Francis H. Mellor	"
Salina	Patrick Gibbons	"
Salina	William and Sophia Pilling	"
Salina	Jesse H. Smith	"
Seventh	James Wightman and wife	"
Smith	R. I. State Home and School	Established.
Sorrento	O. C. Barrows	Defined.
Stampers	Joseph W. Baker	Proposed.
Stanwood	Friendship Street Baptist Society	Defined.
Stanwood	Winthrop A. Risk	"
Sussex, 2 applications	Narragansett Real Estate Co	Proposed.
Sussex	Charles Keech	"
Tell	Hannah J. Finneran	Defined.
Tell	N. G. Larson	Proposed.
Tell	Francesco G. Matarese	Defined.
Tenth	Catherine M. Darling	"
Tenth	Charles W. Roener	"
Vermont avenue	Home Investment Co	"
Virginia avenue	Home Investment Co	"
Waldo	O. C. Barrows	"
Waldo	Emma F. Doty	"
Warrington	Mabel J. Root	Proposed.
Waverly	George H. Nichols	Defined.
Waverly	Louis Ducharme	Proposed.
Waverly	S. S. Atwell	Defined.
Whitmarsh	Robert Knight	Proposed.
Whitmarsh	Addie W. Wood	"
Winthrop avenue	John H. Robbins	Defined.
Winthrop	William E. and Hannah J. Slattery	Proposed.
Yale avenue	Thomas Thompson and wife	Defined.
Yorkshire	John Osborne	"
Yorkshire	Margaret F. Shanley	"
Yorkshire	William F. Kratsch	"
Yorkshire	Charles Keech	"
Yorkshire	Narragansett Real Estate Co	"

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Following is a list of streets upon which grades have been defined, established or changed by the Board of Aldermen during the year:

Name of Street.	Between what Points.	Length in Feet.	Remarks.	
Alabama avenue...	Montgomery and Maryland avenues.....	1,646	Established	July 26
Amherst.....	Putnam and Valley streets.....	1,092	Defined	May 20
Andem.....	Academy avenue and Bergen streets...	1,172	Established	May 20
Arlington avenue..	Lloyd and Olney streets.....	980	"	July 26
Baxter.....	Norwich and Potters avenues.....	282	"	April 15
Berkshire.....	Douglas avenue and Admiral street.....	1,331	Defined	June 17
Black.....	Orms street and Chalkstone avenue.....	636	Established	Sept. 16
Brownell.....	Park and Francis streets.....	229	"	May 20
Canal.....	Smith and Mill streets.....	543	"	Nov. 4
Clarendon avenue.	Cole and Grotto avenues.....	1,056	Defined	May 20
Clym.....	Douglas avenue and Berkshire street....	1,100	"	June 17
Columbia avenue..	Broad street and Roger Williams Park.	2,059	Established	Nov. 4
Doyle avenue.....	Morris avenue and a point easterly.....	1,050	Changed	Sept. 16
Euclid avenue.....	Thayer and Brook streets.....	296	Established	Feb. 18
Francis.....	Exchange place and the river.....	855	"	July 26
Gaspee.....	West Exchange street and the river.....	800	"	May 20
Humboldt avenue..	Elton street and Irving avenue.....	526	"	July 26
Jillson.....	Broad and Eddy streets.....	621	"	Nov. 18
Ladd.....	East and Morris avenues.....	385	Defined	Nov. 18
Lawrence.....	Ridge and Swiss streets.....	326	Changed	Sept. 16
Levina.....	Cole street and Logan avenue.....	242	Established	Feb. 18
Lexington avenue.	Broad and Niagara streets.....	607	"	May 20
Lincoln avenue....	Cole and Grotto avenues.....	1,056	Defined	May 20
Milk.....	Public street and Chester avenue.....	555	Established	Feb. 18
Mill.....	North Main and Charles streets.....	458	Changed	Nov. 4
Miner.....	Sayles street and Potters avenue.....	544	Established	Nov. 18
Montgomery ave...	Broad street and Maryland avenue.....	1,752	"	July 26
Ontario.....	Hamilton and Niagara streets.....	520	"	Feb. 18
Peace.....	Bucklin street and Elmwood avenue....	743	"	Nov. 4
Pearce avenue.....	Huntington and Anthony avenues.....	256	"	Feb. 18
Power.....	Ives and Gano streets.....	570	"	July 26
Power.....	Governor and Ives streets.....	459	"	Dec. 16
Promenade.....	Gaspee street and the railroad bridge....	955	"	April 15
Rathbone.....	Promenade and Valley streets.....	773	"	Dec. 16
Regent avenue....	Cornell street and Davis Park.....	393	"	June 17
Rice.....	A and Pearl streets.....	563	"	Feb. 18
Roger.....	Williams and Power streets.....	220	"	July 26
Rosedale.....	Huntington avenue and Ellery street....	610	Defined	Nov. 18
Saunders.....	Lester and Perkins streets.....	237	Established	Feb. 18
Somerset.....	Prairie avenue and West street.....	661	"	April 15
Stampers.....	North Main and Hewes streets.....	980	"	April 15
Sussex.....	Cheshire and Longmont streets.....	610	Defined	June 17
Upton avenue.....	Blackstone boulevard and Grotto avenue.	328	"	May 20
West.....	Dudley and Somerset streets.....	184	Established	Feb. 18
Whitmarsh.....	Elmwood avenue and Updike street.....	671	"	April 15
Whitney.....	Alger and Elmwood avenues.....	472	"	April 15
	Total.....	32,404		

or 6.137+ miles.

By request of the Committee on Highways, plats of forty-one streets have been examined to ascertain if grades may be defined for them.

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During the year, estimates of the cost of improving streets were furnished the various committees, as follows:

FOR STREET CONSTRUCTION.

Name of Street	Made by Order of	Work Ordered.				Work Not Ordered.	
		Completed.		Not Completed.			
		Length in feet.	Estimated Cost.	Length in feet.	Estimated Cost.	Length in feet.	Estimated Cost.
Andem	Commissioner of Public Works	521	$1,400 00				
Canal extens'n.	Committee on Highways					560	$19,210 35
Charles	Committee on Highways					1,040	16,063 80
Grand avenue	Commissioner of Public Works	808	2,150 00				
Irving avenue	Commissioner of Public Works	2,163	8,650 00				
Lyman	Commissioner of Public Works	681	1,000 00				
Miner	Commissioner of Public Works	540	1,200 00				
Ontario	Commissioner of Public Works	520	1,350 00				
Oregon	Commissioner of Public Works	215	450 00				
Peace	Commissioner of Public Works			745	$2,100 00		
Power	Commissioner of Public Works			570	2,200 00		
Roger	Commissioner of Public Works			220	900 00		
Ruggles	Commissioner of Public Works	873	2,250 00				
		6,321	$18,450 00	1,535	$5,200 00	1,600	$35,274 15

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FOR EARTH WORK AND GRADING.

Name of Street.	Made by Order of	Work Recommended.		Work Not Recommended.	
		Cubic Yards.	Estimated Cost.	Cubic Yards.	Estimated Cost.
Linwood avenue...	Committee on Highways..	.....	.....	18,100	$3,258 00
*Niagara	" " " ..	.....	.....	1,615	1,483 75
Power.....	" " " ..	2,515	$300 00	.....	.....
Regent avenue.....	Ald. McGann.....	.....	.....	708	127 44
Roger	Committee on Highways..	1,410	200 00	.....	.....
Seamans.	" " " ..	.....	.....	3,780	1,768 50
Stanwood	" " " ..	.....	.....	873	218 25
Troop lane..... ...	" " " ..	.....	....	83	29 05
Waverly	" " " ..	.....	.....	1,430	228 80
		3,925	$500 00	26,589	$7,113 79

* This estimate includes land damages.

FOR STREET PAVEMENT.

Name of Street.	Made by Order of	Work Ordered.		Work Not Ordered.		Remarks.
		Square Yards.	Estimated Cost.	Square Yards.	Estimated Cost.	
Foster	Committee on Highways.....	.....	....	928	$2,520 00	Asphalt.
Sabin	Commissioner of Public Works..	.....	.....	2,345	6 849 32	Asphalt.
Street approaches to the new depot (3).	Commissioner of Public Works..	.....	....	9,129	25,938 83	Granite blocks.
Street approaches to the new depot (3).	Commissioner of Public Works..	9,129	$24,934 64	... ...	.. ..	Asphalt.
		9,129	$24,934 64	12,402	$35,308 15	

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For sidewalk pavement, including assessment to abutting estates, where required:

Name of Street.	Made by Order of	Square Yards.	Lineal Feet.
Aborn	Commissioner of Public Works	177.60	228.00
Beach	" " "	31.40	40.00
Beacon avenue	" " "	120.00	125.00
Broad	" " "	166.50	111.00
Broadway	" " "	219.50	132.00
Brook	" " "	408.99	409.00
Canal	" " "	207.00	167.00
Clifford	" " "	66.90	73.00
Congdon	" " "	184.20	169.00
Cypress	" " "	205.80	199.00
Dexter	" " "	1,063.10	1,063.00
Doyle avenue	" " "	303.90	247.00
Durfee	" " "	394.00	443.00
Eddy	" " "	366.60	499.00
Friendship	" " "	88.40	99.00
Fuller	" " "	202.70	344.00
Harrison	" " "	271.10	278.00
Henderson	" " "	158.60	178.00
Hospital	" " "	12.50	16.00
Jenkins	" " "	34.20	43.00
Laura	" " "	40.70	39.00
Lockwood	" " "	100.44	90.00
Moore	" " "	40.40	43.00
Myrtle	" " "	3.50	6.00
Nichols	" " "	36.00	34.00
Norwich avenue	" " "	9.10	19.00
Osborn	" " "	30.60	138.00
Oxford	" " "	61.88	71.00
Parade	" " "	1,229.60	1,261.00
Pine	" " "	32.80	41.00
Pitman	" " "	44.70	50.00
Plain	" " "	95.00	98.00
Point	" " "	61.40	50.00
Portland	" " "	33.10	40.00
Potters avenue	" " "	3.60	4.00
Power	" " "	234.64	248.00
Richmond	" " "	273.30	388.00
Somerset	" " "	82.80	101.00
South Angell	" " "	50.60	62.00
South Main	" " "	258.34	256.00
Walling	" " "	36.00	39.00
Washington	" " "	65.10	72.00
Waterloo	" " "	439.10	469.00
Weybosset	" " "	74.30	54.00
Wickenden	" " "	141.29	170.00
Wilson	" " "	53.40	58.00
		8,214.68	8 725.00

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For concrete top dressing laid over gutter pavement :

Name of Street.	Made by Order of	Asphalt.	Ordinary.
		Sq. Yards.	Sq. Yards.
Andem	Commissioner of Public Works	22.4	337.0
Beach	" " "	.....	301.7
Eddy	" " "	205.6	665.4
Fuller	" " "	.....	387.0
Grand avenue	" " "	99.2	756.7
Lester	" " "	34.0	569.0
Lisbon	" " "	35.7	647.3
Milk	" " "	52.0	346.8
Norwich avenue	" " "	.....	429.0
Osborn	" " "	.....	716.0
Rhode Island avenue	" " "	.....	522.6
Ruggles	" " "	48.1	558.0
Westfield	" " "	.....	249.7
		497.0	6,486.2

Total lineal feet of ordinary top dressing, eighteen thousand two hundred and thirty-six, or three and four hundred fifty-three thousandths miles.

Total lineal feet of asphalt top dressing six hundred and forty-four, or one hundred and twenty-one thousandths miles.

Measurements of asphalt repairs made in seven different streets, amounting to one thousand eight hundred and forty-five square yards, were furnished to the Commissioner of Public Works.

Eight sub-divisions of curbing and sidewalk assessments required on account of real estate transfers were furnished the City Treasurer.

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Recapitulation of work performed by the highway department:

DIVISION.	No. of Streets.	Cost.	Length.	
			Feet.	Miles.
CONSTRUCTION OF STREETS.				
Streets built and roadway macadamized or graveled	18	.....	12,973.0	2.457+
Streets paved	7	.....	4,155.0	0.786+
Streets graded	17	.....	13,362.0	2.530+
Curbing reset	15	.....	4,461.0	0.844+
Work ordered and not commenced	13	.....	8,223.0	1.557+
PROFILES MADE AND GRADES MARKED.				
Profiles for defining grades	43	.....	31,672.0	5.998+
Profiles for water pipe estimates	37	.....	39,847.0	7.546+
Grades marked for street construction	37	.....	16,925.0	3.205+
Grades marked for resetting curbing	15	.....	4,461.0	0.844+
Roadway levels marked	13	.....	6,157.0	1.171+
Grades marked for sewer department	28	.....	.....	.....
Grades marked for railroad construction	12	.....	4,224.0	0.800
Grades marked for earth grading	28	.....	19,477.0	3.688+
Grades marked for sidewalks in uncurbed streets	4	.....	2,410.0	0.456+
Grades marked for parties intending to build	97	156 applications	.....	.....
Grades changed, established or defined	45	.....	32,404.0	6.137+
ESTIMATES PREPARED.				
For street construction	13	$58,924.15	9,456.0	1.790+
For earth grading, 30,514 cubic yards	9	7,613.79	.....	.....
For street pavement, 21,531 square yards	5	60,242.79	.....	.....
For sidewalk pavement, 8,214.68 square yards	46	.....	8,725.0	1.652+
For ordinary top dressing, 6,486.2 square yards	13	.....	18,236.0	3.453+
For asphalt top dressing, 497 square yards	7	.....	644.0	0.121+

The streets of this city received as public highways are improved as followed:

Streets curbed and built	141.17 miles.	
Streets not curbed but the roadway macadamized or graveled	23.46 "	
Streets paved	30.19 "	or *36.46 estimated.
Streets received but not improved	19.36 "	
Total	214.18	

* Estimated in square yards and reduced to a roadway 30 feet in width.

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The 36.46 miles of paved streets (estimated to a 30-foot roadway) are sub-divided as follows :

Granite blocks	27.28	miles.
Cobble	4.90	"
Asphalt	3.35	"
Vulcanite	0.47	"
Brick	0.46	"

In computing the miles of streets, as shown in the preceding tables, the distances are measured on the curb lines; as it is customary to build the roadways to these lines, the results obtained will differ to a certain degree from the lengths measured on the street lines as is done in the street line department.

The employés in this department have been: J. Vinton Dart, assistant engineer in charge of highway department; Henry J. Reynolds, Walter P. Andrews, Charles M. Hunt, principals; John W. Keily, draughtsman; Henry G. McCarthy, L. Frederick Patstone and Eugene W. Smith, assistants; William C. Bourn, James L. Dodge and Harry A. Briggs, principals; William H. Silloway, Arthur H. Blanchard and John Mahoney, assistants, have also devoted a portion of their time to this department.

The department has suffered during the year by the loss of William C. Bourn, who was a faithful and efficient workman, and whose untimely death is felt by all his associates.

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STREET LINE DEPARTMENT.

The following street lines were marked for various parties upon notices of intention to build during the year 1897:

Notice Number.	In Name of	Street.	Remarks.
11,574	Abbie M. Barnes	Prairie avenue and Early street	
11,576	James Pratt	Charles street	
11,579	Mary Ann Ryan	Cutler street	
11,583	John Carulo	Atwells avenue	
11,586	Thomas A. Crawford	Berkshire street	
11,588	James Walmsley	Seamans street	Approximate.
11,590	Burgess heirs	Orange and Middle streets	
11,594	Fanny A. Tenney	Somerset and Friendship streets	
11,595	John O'Brine	Cranston street	
11,596	Joseph Savoil and wife	Huntington avenue	
11,597	Chas. S. Forbes and E. R. Cummins	Bishop street	
11,598	Nicola Cappelli	Cedar and Murphy streets	
11,603	Anna Murphy	Dyerville road	
11,608	Addie O. Angell	Cranston street	
11,610	Harry Taylor	Home avenue	
11,612	Annie Mulvey	Prairie avenue	
11,613	Reorganized Church of Jesus Christ	Bellevue avenue	
11,614	S. H. Stearns	Clemence street	
11,615	" "	" "	
11,616	C. G. Brunnckow	Globe street	
11,618	J. B. Milliken and wife	Swan street	Approximate.
11,621	Patrick Monahan	Preston street	
11,624	Narragansett Real Estate Co.	Alger avenue and Whitney street	
11,628	Julia P. Adie Anthony	Greene street	
11,629	W. H. Waite	Weybosset street	
11,631	James B. Lovett	Chalkstone and Douglas avenues	
11,632	D. J. McCarthy	Hope street	
11,635	Joseph Banigan	Westminster, Union and Middle sts.	
11,636	Wm. H. Low Estate Co.	Westminster street	
11,637	Eliza McCarty	Ocean and Sayles streets	
11,642	Jeremiah Clancy	North Main street	
11,643	S. S. Atwell	Cranston and Waverly streets	
11,644	Addie W. Wood	Whitmarsh street	
11,645	Mrs. Mary J. Carroll	Cranston street	
11,646	James Burke	Chalkstone avenue and Ayrault st.	
11,647	James Dean and wife	Alton street	
11,650	Frank Murray	Allston and Robin streets	
11,652	William Flanagan	Manning street	
11,656	Ottavio Batastine and Vincenzo Giusti	Spruce street	
11,657	Michael Collins and wife	Bond and Spruce streets	
11,658	Thomas F. Keefe	Adelphi avenue	
11,659	Elmwood Lodge, No. 16, K. of P.	Elmwood avenue	
11,662	Washington I. Smith	Bedford street	
11,663	Peter Froberg	Morris avenue and Fosdyke street	Approximate.
11,665	Mrs. Ann M. Tully	Violet street	
11,668	Alexander Duncan	North Main street	
11,670	Joseph W. Baker	Stampers street	
11,671	H. Goldberg	Shawmut street	

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Notice Number.	In Name of	Street.	Remarks.
11,672	John O'Connell and wife.	Ohio avenue	
11,675	George Andrews	Colfax street	
11,679	John J. Fox and wife	Franklin avenue	
11,680	Church of Blessed Sacrament	Academy and Regent avenues	
11,685	Carl A. Lindquist	Wyatt street	
11,686	Lot Mainey and wife	Regent avenue	
11,688	James M. Rivers and wife Delia	Governor street	
11,690	Cornelius McLaughlin	Goddard street	
11,691	Timothy O'Connor	Humboldt and Irving avenues	
11,693	Cornelius Lynch	Brook street	
11,695	William M. Harris	Grafton and Silver Spring streets	
11,697	Mary A. Sanborn	Ontario street	
11,698	Mrs. E. G. F. Inman	Medway street	
11,701	Joseph Baker, Jr.	Ontario street	
11,702	James E. Taylor	" "	
11,706	Shmay Kotler	Stanford street	
11,707	Thomas E. Briggs	Burnett street	
11,709	Marino Lombarti	Quarry street	
11,710	James J. Williams	Wendell street and Huntington ave.	
11,711	Robert Johnston and wife	Burke street	
11,715	Bernard Meehan	Preston street	
11,717	Richard B. Davis	Linden street	
11,718	Mrs. E. J. La Rose	Dixon street	
11,719	Courtney Langdon	Upton avenue	
11,720	Shepard & Co	Clemence, Comfort and Happy sts.	
11,722	Martin Quigley	Calder street	
11,727	Patrick Grady	Wade and Tockwotton streets	
11,730	Louis R. Horton	Warren street	
11,732	John N. Sharp	Congress avenue	
11,736	O. C. Barrows	Sorrento and Waldo streets	
11,738	John Davis and wife	Quaid street	
11,739	Brown University	Cypress street	
11,741	Robert Willis	Swan street	
11,743	Mollie Cohen	Peace street	
11,746	Patrick Gibbons	Cheshire and Salina streets	
11,747	Narragansett Real Estate Co.	Sussex street	
11,748	Sarah A. Dow	Elmwood avenue and Dixon street	
11,749	Hannah J. Finneran	Tell street	
11,750	Francis H. Mellor	Bedford and Salina streets	
11,751	David W. Powers	McKenna street	
11,752	Annie Mulvey	Prairie and Reynolds avenues	
11,757	Thomas Carmody	Atwells avenue	
11,758	Crispin Salisbury	Prairie avenue	
11,759	Edward E. Tiffany	Marlborough avenue	
11,763	John P. Jones and wife	Grand street	
11,764	Elma S. Bowen	Chalkstone avenue	
11,766	Thomas Brennan	Belmont avenue and Carleton street	
11,767	Alexander P. Gray	Chalkstone avenue and Bath street	
11,769	Frank M. Peters	East Transit street	
11,773	Andrew Dolan	Parnell street	
11,777	Gaetano Petrosinelli	Lily street	
11,779	Winthrop A. Risk	Broad and Stanwood streets	
11,781	Catherine M. O'Connor	Pleasant street	
11,786	Manchester & Hudson	South street	
11,791	Scott C. and Eva A. Burlingame	Wendell street	
11,792	William E. Joslin & Co.	Mawney street	
11,793	Charles Keech and wife	Sussex street	
11,794	Narragansett Real Est. Co	Hawkins street	
11,795	" " " "	Yorkshire street	
11,797	Marcia A. Goodell	Richardson street	
11,800	Isaiah W. Long	Brewster and Sixth streets	
11,801	Hannah A., Delia L. and Ellen C. Mahoney	Prospect street	
11,802	David P. Eddy and wife.	Ohio avenue	
11,803	Providence Gas Co.	Allens avenue	

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Notice Number.	In Name of	Street.	Remarks.
11,804	Jesse F. Barker	Rosedale street	
11,806	John Osborne	Cheshire and Yorkshire streets	
11,807	Samuel L. Bowen	Public street	
11,808	James F. Beckett	Goddard street	
11,811	Albert Roberts	O'Neill and Veazie streets	
11,812	David McCold	Halsey street	
11,816	Patrick J. Burke and wife	Cypress and Knowles streets	
11,820	Joseph W. Smith	Fillmore street	
11,821	Louis LaRock	Reservoir avenue	
11,822	Otto Steidl	Pacific avenue	
11,823	Mrs. Ann Cramer	Power street	
11,824	George H. Nichols	Cranston and Waverly streets	
11,828	Edward Lindberg	Atwells avenue and Newton street	Newton street Approximate.
11,832	Laureldale Chemical W'ks	Calais and Okie streets	
11,833	Alice T. Cassidy	Cypress street	
11,834	Butler Duncan Land Co.	West Exchange street	
11,838	Emma E. Dodge and Flora E. Blake	Calder street	
11,839	Mrs. Sarah T. McGlenan	Walling street	
11,840	Michael Gorman	Chester and Prairie avenues	
11,841	J. A. Grimes	Butler avenue and Angell street	
11,843	Mrs. Amelia Jenks	Princeton avenue	
11,845	Mrs. T. Noonan	Charles street	
11,852	John N. Sharp	Norwich avenue and Broad street	
11,854	Mary E. Knight	Grand street	
11,855	Mrs. F. A. Reynolds	Evergreen street	
11,859	John H. Armstrong	Newark street	
11,860	Richard O. Burgess	Parade street	
11,861	Archibald Marshall	Bates street	
11,862	J. W. McCrillis	Eudora street	
11,865	George N. Whitford	Academy avenue	
11,866	Patrick Casey	Hudson street	
11,868	Robert Knight	Bucklin and Daboll streets	
11,871	R. I. State Home and School	Smith street	
11,872	Michael Caldaroni	Federal street	
11,874	Albert W. Brown	New York avenue	
11,876	Andrew Burns	Hendrick street	
11,877	George Glotzl	North Main street	
11,878	Lawrence Guild	Pratt street	
11,884	Home Investment Co.	California avenue	
11,885	Bridget Armstrong	Manton and Steere avenues	
11,886	Freemason's Hall Co.	Eddy, Dorrance and Pine streets	
11,888	Edward Boylan	Chapin avenue and Ellery street	
11,890	William Eddy	Elmwood avenue and McKinley st.	
11,893	Owen Rice and wife	Highland avenue	
11,896	Felice Giose	Chambers street	
11,897	Mrs. Jane O'Rouke	Orchard and Oxford streets	
11,898	Mrs. Louise Goodman	Carpenter street	
11,900	Hugh F. Tierney	Osborn street	
11,901	Peter Olson	Pearl street	
11,904	William H. Covell	Dover street	
11,905	Bernard Boylan	Tockwotton street	
11,906	Minerva E. Bliss	Lexington avenue	
11,907	Magnus Olsson	Blackstone street	
11,909	Emma A. Handy	Homestead avenue	
11,910	B. Thomas Potter	Broadway	
11,913	J. W. Brady	Dallas alley	
11,916	Fred H. Read	Arnold street	
11,917	Home Investment Co.	Vermont avenue	
11,919	John J. Phillips and wife	Penn street	
11,921	Thomas Kelly and wife	Oxford street	
11,927	William A. Buhler	Lexington avenue and Hamilton street	
11,937	Alfred Z. Horton	Alger avenue	
11,938	P. F. Gannon	Westminster street	
11,940	Mrs. Jennie M. Andrews	Candace street	

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Notice Number.	In Name of	Street.	Remarks.
11,945	Edward M. Worth and wife	Gallup street	
11,949	Reuben G. Holmes	Rhodes street	
11,950	Philip A. Capelle	Gallup street	
11,953	John E. Donley	Amherst place and Glover court	
11,955	John H. Flier	Fruit street	
11,956	Charles Earley	Atwells avenue	
11,957	Margaret F. Shanley	Cheshire and Yorkshire streets	
11,961	Mrs. E. A. Hughes and M. A. Doran	Pleasant street	
11,963	Home Investment Co.	California avenue	
11,964	" "	Alabama avenue	
11,965	Eliza J. Burns and Margaret Texson	Althea street	
11,966	Ida Josephson	Randall street	
11,967	Andrea Santangini	Cedar street	
11,970	Narragansett Real Estate Co.	Stamford avenue and Dixon street.	
11,971	Patrick J. and Mary J. McCarthy	Seymour street	
11,973	Charles L. Blanding	Aleppo street	
11,976	Marino Lombardi and wife	Quarry street	
11,977	Thomas Devine and wife.	Dover street	
11,982	Providence Public Library	Greene street	
11,983	Emma A. Handy	Boyd street	
11,984	" "	Rill street	
11,985	Walter A. Peck	Angell, Olive, and Thayer streets	
11,986	Michael Williams and wife	Hyat street	
11,991	Jesse H. Smith	Cheshire and Salina streets	
11,993	Wm. E. and Hannah J. Slattery	Pacific avenue and Winthrop street.	
11,994	George Hancock	Ashton and Chatham streets.	
11,995	Frank B. Feltham	Alabama avenue	
11,998	Emma G. Long	Nashua street	
11,999	Dr. G. Edward Buxton	Broad street	
12,000	John L. Kehoe	East avenue and Lewis street	
12,001	Mrs. E. A. Shepard	Babbitt and Black streets	
12,002	Reuben G. Holmes	Eddy street	
12,003	Giuseppe Iannetti and wife	Charles street	
12,004	James Stanley	Matilda street	
12,006	Mary T. Bryant	York street	
12,007	John J. Shanley	Thorne street	
12,008	Antonio Di Altieri	Greeley street	
12,009	M. Delany	Quaid street	
12,010	Mrs. Anna Charnley	Chester avenue	
12,011	Mrs. Catherine Gallagher.	Beacon avenue	
12,012	John Kelley and wife	Schofield street	
12,015	Mrs. Sarah Markey	Homestead avenue	
12,016	Janette D. May	East George and Gano streets	
12,017	John H. Armstrong	Newark street	
12,018	Catherine D. Kelly	Canton street	
12,020	Anton Peterson	Public street	
12,023	George U. Meyer	Glenham street	
12,025	Thomas Thompson and wife	Mt. Pleasant and Yale avenues	
12,028	Thomas Droney	Brattle street	
12,029	W. Fred Bowen	Althea and Cranston streets.	
12,031	Emil Anderson	Elmwood street	Approximate.
12,032	John McCarron	Ridge street	
12,033	William Binney	Meeting street.	
12,036	Narragansett Real Estate Co.	Sussex street	
12,037	Charles D. Waite	Broadway	
12,040	Emma A. Handy	Silver Spring street	
12,041	" "	Huntington avenue	

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Notice Number.	In Name of	Street.	Remarks
12,043	Alice Turbitt	Penn street	
12,046	Robert Muir	Eddy street	
12,049	James and Joseph Healey	Knight street	
12,053	Antonio Jackvony	Charles street and first street north of Social street	
12,055	Nicklas J. Nelson	Reynolds avenue and Burnside st	
12,057	Thomas J. Hopkins	East avenue	
12,059	Mary Hopkins	Cranston street	
12,060	Patrick and Mary Doyle	Felix street	
12,065	Bridget Hogan	Prescott street	
12,066	Charles Gallagan and wife	Lancaster street	
12,068	Sophy Walker	Penn and Vinton streets	
12,070	Pasquale Votra	Dean street	
12,073	Elizabeth M. Kingsbury	West Park street	
12,074	Edward W. Holton	Winthrop avenue	
12,076	William M. Harris	Oak street	
12,078	Caproni Bros	Spruce street	
12,080	M. L. Wilbur	Broad street	
12,081	Caroline M. Farnum	Jewett street	
12,082	Home Investment Co	Massachusetts avenue	
12,083	" "	California avenue	
12,084	" "	" "	
12,085	George W. Biddle and wife	Union avenue	
12,086	Edward D. Clark	Tockwotton street	
12,087	Clark D. Upham	Aborn street	
12,088	James H. Hagan	Richmond street	
12,089	Emma A. Handy	Rochambeau avenue	
12,090	John Meighan	Sunnyside street	
12,093	Robert Paterson	East avenue and Ladd street	
12,095	John J. Hickey	Douglas avenue and Chad Brown street	
12,096	Edward S. Cook	Highland avenue and Eleventh st	
12,097	Howard S. Paine	Elmwood avenue	
12,099	Louis Schonhardt	Gallup street	
12,102	Josephine A. White	Huntington avenue	
12,103	" "	Anthony avenue	
12,104	Michael Conaty	Carleton and Chaucer streets	
12,105	Emma A. Handy	Ianthe and Silver Spring streets	
12,106	W. R. Richards	Carpenter street	
12,107	Olive H. Franklin	Morris avenue and Eames street	
12,108	Edmund Renwick Langhorn	Mt. Pleasant avenue and Chaucer street	
12,109	Benito Polosi	Tuxedo avenue	
12,110	Terrence Smith	Manton avenue	
12,114	Robert McCardell	Snow and Weybosset streets	
12,118	Michael and John E. McDonough	Glenham street	
12,119	Thomas McMann	Amherst and Joslin streets	
12,120	James McPhillips	Berkeley street	
12,121	James McKinnon	Allens avenue	
12,124	Annie M. Suffa	Carrington avenue and Camp st	
12,127	William and Margaret Murphy	Tell street	
12,135	Charles Franklin	Eames street	
12,137	John H. Robbins	Winthrop avenue and Manomet st	
12,138	Patrick and Mary Gallagan	East Transit and Gano streets	
12,139	Leander R. Peck	Meadow street	
12,143	Patrick Flynn and wife	Crary street	
12,144	Walter A. Presbrey	Ford street	
12,146	Thomas McKenna	Academy avenue	
12,147	Thomas Byron and wife	Pavilion avenue	
12,148	Charles R. Makepeace	Humboldt and Wayland avenues	
12,149	John Helgerson	Blackstone street	
12,150	Walter G. Everett	Governor street	

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Notice Number.	In Name of	Street.	Remarks.
12,151	Charles Cohen	North Main street	
12,152	Mrs. John F. Allen	Grand and Oriole avenues	
12,154	Emma F. Doty	Waldo street	
12,157	Toye & Holmes	Doyle avenue and Scott street	
12,161	Narragansett Real Estate Co.	Stamford avenue and Dixon street.	
12,167	Stedman A. Randall	Prairie avenue and Public street	
12,170	Thomas F. Toomy	Beacon avenue and Globe street	
12,171	George J. Gammell	Goddard street	
12,174	Charles Barrett	Hamilton and Mitchell streets	
12,177	William R. Randall	Elmwood avenue	
12,178	George W. Prentice	Cromwell street	
12,180	A. Albert Sack	Lincoln street	
12,181	Henry P. Stone	Cranston street	
12,182	Josiah A. Whitman	Reservoir avenue	
12,183	Edward C. Chapman	Rosedale street	
12,184	John McHale, Jr.	Candace street	
12,185	John W. Page	Elmwood avenue	
12,186	William J. Halcrow	Blackstone and Stanford streets	
12,193	Peter Downey	Alton street	
12,194	John Collins	Union avenue	
12,195	Home Investment Co.	California and Virginia avenues	
12,196	" "	Indiana avenue	
12,197	" "	Massachusetts avenue	
12,198	" "	Alabama avenue	
12,199	" "	Ohio avenue	
12,200	" "	" "	
12,201	Presbary H. Briggs	Meader street	
12,202	Catherine M. Darling	Tenth street	
12,204	Frank Slavin	Atwells and Tuxedo avenues	
12,206	Yearly Meeting of Friends for New England	Lloyd street	
12,207	Frank E. Temple	Marlborough street	
12,209	Emma A. Handy	Bartlett avenue	
12,211	Louis Ducharme	Waverly street	
12,212	Richard F. Hulme	Bergen street	
12,213	James B. Hogan	Jewett street	
12,214	Agnes E. Williams	Peace street	
12,215	A. C. Garst	Montgomery avenue	
12,216	Brown & Sharpe M'f'g. Co.	Edith street	
12,217	Catherine M. Crowell	Potters avenue	
12,219	T. H. Colvin	Globe street	
12,220	Providence Belting Co.	Charles street	
12,221	Elizabeth Clarke	Marlborough street	
12,223	Robert E. Smith	Howard avenue	
12,223	R. G. Holmes	Rhodes street	
12,225	Charles Keach	Yorkshire street	
12,226	F. P. Rundell	Peace street	
12,230	Peter Healy	Plum street	
12,233	Minerva E. Bliss	Norwich avenue and Broad street	
12,235	Oliver Roy	Rosedale street	
12,236	Frank Emerson	Winthrop avenue	
12,237	D. G. Edwards et al.	Point street	
12,238	Emma A. Handy	Bartlett avenue	
12,241	Nils G. Lawson	Tell street	
12,243	Narragansett Real Estate Co.	Elmwood avenue and Dixon street.	
12,244	Daniel J. and John F. O'Connell	Charles street	
12,246	Mrs. Ann McClarence	Waverly street	
12,250	William Carter	Fruit street	
12,253	Patrick J. Kilkenney	Norwich avenue	
12 254	James Wightman	Seventh street	
12,256	Horace F. Perkins	Willard avenue	
12,257	" "	Chester avenue	
12,265	Owen Kelly	Knight street	
12,270	James Hanley	Thurbers avenue	

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The following sundry lines have also been defined:

Allens avenue,	Henderson avenue,
Broad street,	Tefft street,
Canal street,	Weybosset street.

RECAPITULATION.

Building notices received during the year	696
Building notices relating to repairs, etc., and not requiring street lines.	306
Lines marked for building notices	355
Sundry lines given	6
Total lines defined	361

As in past years information in regard to street lines has been furnished to the water department as required:

Surveys and maps were made of the following streets during the year:

Streets to be laid out in the usual form:

Name of Street.	Between what Points.	Length in Feet.
Babbitt	Black and Quaid streets	338.85
Charles	Lock street and Randall square	939.77
Columbia avenue	Broad street and Roger Williams Park	2,051.78
Power	Ives and Gano streets	550.00
Roger	Power and Williams streets	200.22
		4,080.62

or 0.773 miles.

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Streets conveyed by deed for highway purposes and ordered repaired:

Name of Street.	Between what Points.	Length in Feet.
Furnace	India and Tockwotton streets	160.87
Humboldt avenue	Irving avenue and southerly line of Elton street	414.48
Irving avenue	Westerly line of Taber avenue and westerly line of Elmgrove avenue	460.00
Irving avenue	Easterly line of Wayland avenue and easterly line of Slater avenue	1,040.40
		2 075.75

or 0.393 miles.

Streets to be laid out and widened under the Betterment Act:

Name of Street.	Between what Points.	Length in Feet.
Canal	Smith and Mill streets	396.72
Charles	Mill street and Randall square	984.44
		1,381.16

or 0.262 miles.

Streets declared public highways by reason of twenty years use:

Name of Street.	Between what Points.	Length in Feet.
Chaffee	Appleton street and Manton avenue	676.84
Irving avenue	Westerly line of Grotto avenue and westerly line of Blackstone avenue	1,006.14
		1,682.98

or 0.319 miles.

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Streets or portions of streets declared useless and abandoned for highway purposes:

Name of Street.	Between what Points.	Length in Feet.
Calder.....	Huntington avenue and N. Y., N. H. & H. R. R.....	78.12
Furnace.	India and Tockwotton streets.....	160.87
Huntington avenue...	Near the southerly shore line of Benedict pond.....	.....
Madison.....	Huntington avenue and N. Y., N. H. & H. R. R. ...	94.69
		333.68

or 0.063 miles.

Total length of street surveys and plats, nine thousand five hundred and fifty-four and nineteen one hundredths feet, or one and eighty-one one-hundredths miles.

Streets have been laid out or received during the year under various forms as follows:

Under the usual form:

Name of Street.	Between what Points.	Length in Feet.
Columbia avenue.....	Broad street and Roger Williams Park.....	2,051.78
Doyle avenue.....	Morris and Elmgrove avenues.....	1,451.21
Power.....	Ives and Gano streets.....	550.00
Rathbone.....	Valley and Promenade streets.....	749.66
Roger.....	Power and Williams streets.....	200.22
Rugby.....	Broad and Jillson streets.....	271.53
West Park.....	Holden and Senter streets.....	735.22
		6,009.62

or 1.138 miles.

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Streets conveyed by deed for highway purposes and ordered repaired:

Name of Street.	Between what Points.	Length in Feet.
Furnace	India and Tockwotton streets	Relaid.
Humboldt avenue	Irving avenue and southerly line of Elton street	414.48
Irving avenue	Westerly line of Taber avenue and westerly line of Elmgrove avenue	460.00
Irving avenue	Easterly line of Wayland avenue and easterly line of Slater avenue	1,040.40
		1,914.88

or 0 363 miles.

Streets laid out and widened under the Betterment Act:

Name of Street.	Between What Points.	Length in Feet.
Canal	Smith and Mill streets	396.72
Lexington avenue	Niagara and Broad streets	627.17
		1,023.89

or 0.194 miles.

Streets declared public highways by reason of twenty years use:

Name of Street.	Between what Points.	Length in Feet.
Chaffee	Appleton street and Manton avenue	Relaid.
Irving avenue	Westerly line of Grotto avenue and westerly line of Blackstone avenue	1,006.14
		1,006.14

or 0.191 miles.

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Total length of streets laid out and received in 1897, 9,954.53 feet, or 1.885 miles.

During the year the following streets or portions of streets were declared useless and abandoned for highway purposes:

Name of Street.	Between what Points.	Length in Feet.
Calder	Huntington avenue and N. Y., N. H. & H. R. R.	78.12
Furnace	India and Tockwotton streets	160.87
Huntington avenue	Near the southerly shore line of Benedict pond	.....
Madison	Huntington avenue and N. Y., N. H. & H. R. R.	94.69
		333.68

or 0.063 miles.

This amount subtracted from the length of streets received during the year, gives as a net increase during 1897, 9,620.85 feet, or 1.822 miles, making for the present length of received streets 209.468 miles.

Preliminary surveys and maps for the widening or extension of Cross, Eaton, Prince and Stanwood streets have been made as desired.

By request of the superintendent of street signs and numbers, one hundred and sixty-two plans of streets have been furnished for numbering purposes.

The length of streets platted but not yet received is now approximately one hundred and twenty-two and seven one-hundredths miles.

During the year work has been performed for the department of public buildings as follows:

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Lines and levels for erection of

City scales on Canal street.
East avenue school building.
Mt. Pleasant avenue school building.
Greenhouse at Dexter Asylum.

Lines and levels for fencing to be erected at

Broad street school.
Harrison street ward room.
West side high school.

Lines and levels for grading and paving yards of

East avenue school.
East side high school.
Mt. Pleasant avenue school.
West side high school.

Plans were prepared for granite steps for East avenue school and Mt. Pleasant avenue school, and lines and levels were given for the former.

Measurements of area of turfing were taken at Broad street school and West side high school; also measurements of granolithic pavement at West side high school.

Cross sections of lot purchased for school purposes on Ives and Preston streets were taken and a plan showing same was made for the public building department.

An accurate record of the travel over Red bridge for the weeks ending August 15, and September 26, 1897, was taken under the superintendence of this department, the results being tabulated for the State Commission to apportion the cost of said bridge.

From an accurate map made by this department, the area of the city has been carefully computed, with results as follows: Total area of city to shore line ten thousand eight hundred and twenty (10,820) acres, or sixteen and ninety-one one-hundredths ($16\frac{91}{100}$) square miles. Approximately

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three hundred and twenty-eight (328) acres, or fifty-one one-hundredths ($\frac{51}{100}$) square miles of this is covered by water, leaving a land area of about sixteen and four-tenths ($16\frac{4}{10}$) square miles.

The force employed during the year in this department has consisted of Herbert E. Sherman, assistant engineer in charge of street line department; David B. Fitts and Edward S. McGregor, principals, and John F. Conaty and William H. McSoley, assistants.

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CITY PROPERTY.

Surveys or plans have been made as follows:

Aldrich street school estate.
Blackstone park, portion of north line marked for fence.
Blanding street lot, plan of for purchaser.
Broad street school estate, plan for Supt. of Public Buildings.
Cove lands, plans of land available for sale.
Davis park, survey of south and west lines.
Dexter Donation, plan for City Treasurer.
Doyle avenue lots, plan for City Treasurer.
East avenue school estate, survey and plan.
East Manning street school estate, survey.
Eddy street lots, plans showing encroachments (2).
Friendship street, corner Broad street, proposed change.
Gaspee street lot, corner Railroad street, survey.
Gaspee street, west side of, sewer assessment.
Harbor line south of Sassafras Point.
High school estate, east side, plan of.
High school estate, west side, plan of.
Huntington avenue extension, plan showing.
Improved sewerage, viz.:
  Bold Water Point plat, proposed purchase.
  Gangway off Printery street, survey of.
Irving avenue line, survey of.
Ives street school, plat of.
Kinsley avenue lot, plan of.
Knight street station, plan of.
Mill street bridge lot, plans of (2).
Mt. Pleasant avenue school estate, survey and plan.
Promenade street, survey east of Gaspee street.
Providence and Springfield R. R. location at Merino.
Richardson street gravel lots, plans of (2).
Roger Williams park, survey for additions.
School committee room at new High School, diagram of.
Sessions lot, staked for purchasers.
Silver Spring street lots, staked out.
Steeple street lot, survey.
Stump Hill property, plan of.
Work-house lot, lines of marked for purchaser.

Stone bounds have been placed as follows:

Aldrich street school estate..... 1
Classical high school estate..... 1
Davis park.....12

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East avenue school estate	6
East Manning street school estate	4
Field's Point, harbor line	1
Irving avenue	7
Manual Training school estate	3
Mt. Pleasant avenue school estate	4
North Burial Ground	42
Roger Williams park	2
Total	83

Descriptions for deeds, agreements and other instruments have been furnished or examined as follows:

Alabama and Montgomery avenues.
Aldrich street lots.
Blackstone park.
Egan street, right of way (3).
Furnace street.
Gano street lot.
Improved sewerage:
  Allen's Print Works, right of way.
  Aleppo street (2).
  American Screw Company (3).
  Branch avenue lot.
  Danforth street lot.
Ives street school estate.
Moses Brown farm streets.
Mt. Pleasant avenue school.
Old town clerk's office.
Richardson street gravel lots.
Ridge street lots (3).
Roger Williams park (3).
Ruggles street.
Sessions lot (7).
Smith's Hill (sundry streets on).
Stanwood street.
Taber and Irving avenues (3).
West Hoyle street.
Work-house lot (2).

By direction of the City Solicitor assistance was rendered in the following court cases:

Blackstone Hall Co. *vs.* City of Providence.
Curry, Mary A., *vs.* City of Providence.
Hennessey, John B., heirs of, *vs.* William D. Bullock, et al.

Work in connection with the addition to the Manual Training School has included, besides numerous plans and descriptions of the land condemned, a floor plan of each of the four stories of the brick house at corner of Summer and Pond streets and six sets of photographic views of all the buildings for use of the experts employed by the city to value the premises.

Assistance has been furnished and maps made in connection with the extension of Canal street from Smith street

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northerly. At the request of the City Solicitor numerous photographs were taken and such other help given as the experts required.

Maps were furnished to illustrate the proposed annexation of a portion of the town of Cranston to the city of Providence.

In connection with the proposed abandonment of Durfee street for the new State Arsenal, all deeds and other records bearing on the layout of said Durfee street and the Dexter Training Ground were examined and copied.

Plats, areas and other information relating to improved terminal facilities have been given whenever requested by other departments.

Plans of a proposed layout of Exchange place, showing a site for a new post office, were delivered to the post office department.

By direction of the City Solicitor maps showing all electric and steam car routes in and out of Providence, with an elaborate table giving lengths of all car lines, number of trips made daily and annually, length of single and double tracks both in and out of the city, and other information for estimating the sum to be paid by the Union Railroad Company for use of the city's streets were made by this department.

At the request of the committee on city property all auction sales of city land have been attended, maps drawn, lots staked out, and such other duties performed as the auctioneer required.

During the year a new one hundred foot standard of length has been laid off on the Washington street side of the City Hall. It consists of copper plugs placed in the granite flagging just ten, fifty, and one hundred feet from a similar zero

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plug. The proper length was obtained by sending a steel tape approximately marked to the Superintendent of Weights and Measures at Washington, and receiving with the return tape a certificate of its error under a given strain and temperature. It is hoped that the standard thus laid off will prove to be the most accurate and convenient ever established in Providence.

Whenever applied to, this department has assisted the record commissioners as far as possible.

At the request of the recorder of deeds certain record plats were copied and corrected.

A list of all real estate owned by the City of Providence, with a description of the same, was furnished for the city auditor's report.

The tabulated statement of all flowage rights relating to the North Burial Ground, mentioned in last year's report, has been completed.

Work was done in connection with proposed bath houses at Blackstone Park and Field's Point for the committee on harbor.

Assistance has been given the city solicitor whenever applied for.

A systematic survey of the North Burial Ground has been planned and partly executed. The scheme selected provides for the sub-division of the entire grounds into thirty-nine rectangles, each four hundred feet long and six hundred feet wide. Permanent granite bounds will be placed at each corner of these rectangles, and all burial lots hereafter sold will be located from these bounds, forty-two of which are already in place. Each rectangle will be platted on a separate sheet, twenty-two inches by thirty-three inches, drawn on a scale of twenty feet to an inch, and will, when com-

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pleted, show the area and dimension of every lot within the grounds.

The work relating to this department has been in charge of William G. Brennen, assistant engineer; Louis D. Richardson, principal; Daniel J. Kirby, assistant. William M. Cotton, Jr., has also devoted a portion of his time to this department.

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PUBLIC PARKS.

The area, in square feet and in acres, for each tract of land now devoted to park purposes in the city is given below:

	Area in Square Feet.	Acres.
Abbott Park, on Broad street, near Chestnut street	7,800	0.179
Arnold Square (deeded to, but not accepted by the city)	38,950	0.894
Blackstone Park	1,567,100	35.976
Blackstone Boulevard Parkway	840,282	19.290
Columbus Park	9,123	0.209
Davis Park	1,670,168	38.342
Dexter Training Ground (controlled by commissioners)	395,410	9.077
Fenner Park	2,946	0.068
Franklin Square, at corner of Atwell's avenue and Bradford street	22,914	0.526
Hayward Park	115,349	2.648
Hopkins Park	48,590	1.115
Prospect Terrace	12,033	0.276
Roger Williams Square	40,000	0.918
Roger Williams Park	18,596,026	426.906
Tockwotton Park	155,765	3.576
Triangle at junction of Charles and Back streets	2,350	0.054
Triangle at junction of Hospital and Eddy streets	1,120	0.026
Triangle at junction of Bassett, Elm, and Hoppin streets	1,370	0.032
Triangle at corner of Stampers and Hewes streets	353	0.008
Washington Square	39,052	0.897
Total	23,566,701	541.017

ROGER WILLIAMS PARK.

Lines and grades have been given for the improvement of the large island, where three thousand eight hundred and

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seventy-one lineal feet of drives and three thousand six hundred and seventy lineal feet of walks have been built, also sixteen catch basins and one thousand six hundred and twelve lineal feet of drain pipe to carry off the surface water to the lake. Seven thousand four hundred and seventy lineal feet of gravel walks have been built in various parts of the park.

The total length of drives in the park is now about seven and three-quarters miles.

Lines and grades have been given for building a speedway and walk, eighty feet wide, running from Broad street westerly along the New York, New Haven and Hartford Railroad, for about three thousand one hundred and fifty feet, so that a half mile course may be laid off. The grade varies from level to a rise of one and eight-tenths feet in one hundred feet. The work, however, is in an unfinished state.

Measurements of the amount of turf and concrete laid each month have been taken.

BLACKSTONE BOULEVARD PARKWAY.

This consists of a strip one hundred feet wide and eight thousand seven hundred and seventy-three feet long, lying between two driveways, thirty-two feet in width, and extends from Butler avenue to East avenue at the city line.

On the southerly portion, four thousand four hundred and seventy-six feet in length, extending from Butler avenue to Rochambeau avenue, lines and grades have been given for grading and laying out paths in a varied design, yet there still remains to be graded about five hundred feet near Rochambeau avenue.

DAVIS PARK.

Grades were marked for leveling off and spreading the loam east of Brookside avenue near Valley street.

Stakes were set for sloping the steep bank adjacent to Raymond street, also for making the deep fill which adjoins the same street.

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NORTH BURIAL GROUND.

Formerly in laying out new groups plats were made giving the numbers, dimensions, and areas of the lots, but in selling, little attention has been paid to the original plat, and in writing the deeds the numbers, dimensions, and areas have been changed indiscriminately, so that in some cases it is impossible to tell which lot was intended to be sold except by the occupation. Two deeds of the same lot have been given to separate parties. A deed of a second lot has been given by the city in exchange for another which was never reconveyed to the city. Parties are occupying lots entirely foreign to the deeds held by them. Some deeds, especially in the old part of the grounds, have never been recorded; and some lots are held under "grants" of the City Council giving "authority to enclose a lot, to be occupied during the pleasure of the City Council." The location under these grants is very indefinitely given, and is sometimes wanting.

Owing to this ambiguity and deficiency of information, the Commissioners are desirous of having the ownership determined, and the boundaries of the lots marked by granite bounds.

The cemetery has been divided into thirty or more sections, four hundred by six hundred feet, the corners of which have been accurately marked by granite bounds. A beginning has been made, and the boundaries of eight hundred and eighty lots have been fixed, four hundred of which have been marked by small granite bounds set even with the turf. In the case of lots originally surrounded by a one foot path, sometimes the lot was sold including the path, and at others without it. By direction of the Commissioners it has been the practice to give half the path to each of the adjoining lots. The information has meanwhile been obtained for platting these lots on a scale of twenty feet to an inch on the section maps.

Although entailing considerable expense it is thought that upon the completion of the work, together with the improved

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method adopted of keeping the records, there will be no need of further trouble.

A portion of the grounds near Cemetery street has been laid out in drives, and the stakes set for grading.

The force employed during the year has been: Frank B. Bourne, assistant engineer in charge of park department, Clarence M. Winsor, S. Frank Nolan, principals; Lewis G. Whittelsey, Albeus P. Murray, assistants; also Charles F. Janes, John H. Ahern, principals, William A. Brown, H. Loring Huggins, Charles M. Cunliffe, Lester F. Allen, Charles P. Mowry, George W. Buxton and Thomas F. Campbell, assistants, have devoted a portion of their time to this department.

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BRIDGES AND HARBOR.

BRIDGES.

The construction of new bridges and the repairs on old ones have required a large amount of work from this department in the preparation of plans, specifications, estimates, and in engineering supervision. The more important work is as follows:

MANTON AVENUE (TAR) BRIDGE.

The superstructure of this bridge, which is maintained jointly by the City of Providence and the Town of Johnston, was completed and opened for travel March 11, 1897, the old bridge having been closed to travel February 10, 1897.

The superstructure, which is of steel throughout except the wooden planking, consists of two steel rivetted trusses about thirty-one feet apart, and carrying transverse floor beams spaced about eight and one-half feet apart. Upon the floor beams rest the nine-inch I beams, which support four-inch yellow pine planking. The wearing surface was intended to be two inches of Trinidad asphalt, but owing to the bad weather two-inch spruce was substituted, which, when worn out, will be replaced by asphalt. The sidewalks are planked with two by six-inch yellow pine, laid with open joints. The bridge has been designed for a distributed load of one hundred pounds per square foot, in addition to the weight of the bridge itself, and for a concentrated load of a twenty ton steam road roller in any position.

WEYBOSSET BRIDGE.

The work of rebuilding this bridge has been so conducted as to keep one half of the bridge open for travel. The northerly half, including the portion along Canal street, was com-

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pleted and opened for travel December 20, 1897, this section having been closed to travel May 5, 1897.

The abutment walls have been built on the new channel lines, giving one hundred and thirty-two and one-half feet between coping stones, and corresponding in width to the new channel lines at the Exchange and Burnside bridges.

The substructure and superstructure are similar in construction to the Burnside and Exchange bridges, except that brick arches are substituted for the metal floor.

PARK BRIDGES.

Plans, estimates and specifications have been prepared, and the work of construction superintended, for two masonry arch bridges at Roger Williams Park, connecting the island with the main land.

These bridges have been named after the two Indian Sachems "Caunounicus" and "Miantunnomu," who deeded all of the land in this vicinity.

The spelling of these names, although different from the commonly accepted form, is the form of spelling used in the signatures on the original deeds, as determined by a careful examination of the early records by Mr. Edward Field.

The Miantunnomu arch is built on a skew, the angle which the face of the arch makes with the axis of arch being 56° 30′, and the clear span at right angles to the abutments is thirty-eight feet. The foundations are of rubble laid in cement mortar. The abutments are of quarry-faced granite ashlar, backed with rubble, and all laid solid in Portland cement mortar, the upper course being beveled on top to form the skew backs. The exposed faces of the arch are of granite, the ring stones extending from the line of the intrados to the base of the parapet wall and giving a very massive appearance to the structure. The face arch stones vary in length from two and one-half feet to six and three-quarters feet, with the beds cut on lines parallel with the axis of the arch.

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The soffit of the arch is lined or faced with white enamel brick and backed with Portland cement concrete. When the concrete had become dry, the back of the arch was coated with Trinidad asphalt cut with petroleum and flowed on hot about one-eighth inch thick to prevent the percolation of water through the arch. The balcony projections on each side, which are circular in plan and of fine pointed granite, give architectural effect to the arch, and, in addition, make a convenient place of observation for pedestrians.

The parapet wall is of fine cut granite of ornamental form, with oval perforations in the die or panel course.

The wing walls are of quarry-faced broken ashlar. All of the granite, which came from Cape Ann, Massachusetts, was cut at the quarry in accordance with detailed drawings furnished from this office, and when brought here fitted exactly into place without fitting or additional cutting, notwithstanding the complicated shapes of many of the stones.

The placing of the asphalt pavement will be delayed until another season, in order that the filling may have time to become well compacted. The striking of the centering, which was left in place for two weeks, caused no settlement or visible disturbance of the arch.

The accompanying illustrations show a section of the arch, and the face of the arch looking north.

The Caunounicus arch is built at right angles to the street line with a clear span of thirty-eight feet. The foundations are of rubble laid in cement mortar, and the abutments of quarry faced ashlar laid in Portland cement mortar, the upper course being beveled on top to form the skew backs. The exposed faces of the arch, including the pilasters and parapet, are of red granite from Head Harbor Island, Maine. The wing walls are faced with seam-stained natural faced stone. The soffit of the arch is of Pascoag granite, pean hammered, backed on the haunches with rubble. The cap,

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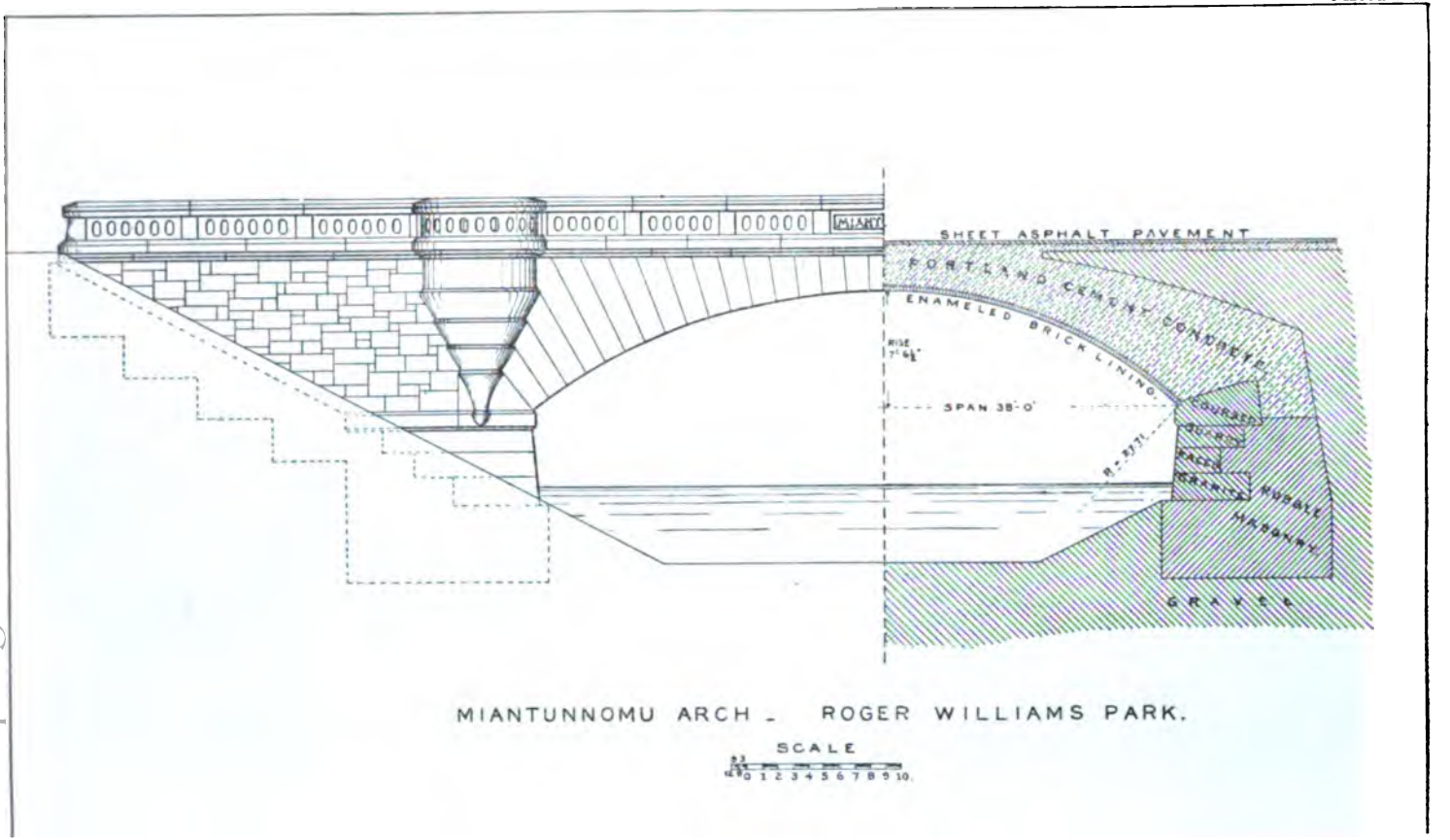

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MIANTUNNOMU ARCH, ROGER WILLIAMS PARK.

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base and dentils of the parapet course are fine cut, and the die or panel course quarry faced.

The asphalt paving will be laid another season after the filling has had time to become thoroughly compacted. The centering was left in place about two weeks, and its removal caused no settlement or visible disturbance of the arch.

The accompanying illustration shows the arch from the east side, looking westerly.

Plans and estimates have been made for a Public Comfort building to replace the old street car station at Weybosset bridge; also for bridging to cover the whole area over the river between the Weybosset bridge and Burnside bridge.

In addition to the foregoing work a large amount of miscellaneous work has been done, including the preparation of plans and estimates, inspection of material and supervision of repairs made upon various bridges during the year.

A careful examination of all of the bridges has been made during the year.

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HARBOR.

During the past year material has been dredged as follows:

Locations.	Amount cubic yards.	Price per cubic yard.	Value.
Channel below Crawford street bridge	2,768	$0.13½	$373 68
At City Dock	2,313	13½	312 26
Channel to City Dock	11,853	13½	1,600 16
Main channel opposite Fox Point	597	13½	80 59
Totals	17,531		$2,366 69

In connection with the above dredging, various soundings have been taken, range stakes and tide gauges set, and monthly estimates prepared, upon which payments to the contractors have been made.

The self-registering tide gauge has been in continuous operation during the year, and has received the necessary attention.

The employés in this department during the year have been: William D. Bullock, assistant engineer, in charge of department of bridges and harbor; Elmer W. Ross, Hermon R. Bliss, and Edmund J. Steere, principals; Harry E. B. Bailey, Harry L. Avery and Henry S. See, assistants.

There are in the office 13,605 indexed plans, 354 of which have been classified and indexed during the past year.

On the first Monday in May the undersigned was appointed

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City Engineer, and J. Herbert Shedd, who had previously held the office of City Engineer, was appointed Consulting Engineer.

The average number employed during the past year was 60.

OTIS F. CLAPP,

City Engineer.

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ANNUAL REPORT

OF THE

SUPERINTENDENT OF LIGHTS,

For the Year 1897.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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ANNUAL REPORT

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REPORT.

To the Honorable the Mayor and Board of Aldermen of the City of Providence:

Gentlemen: The superintendent of street lights herewith presents his annual report for the department year ending December 31, 1897:

EXPENDITURES.

The expenses of the department for the fiscal year ending September 30, 1897, were two hundred and eighty-three thousand five hundred dollars ($283,500).

The amount appropriated for that period was two hundred and eighty thousand dollars ($280,000), showing an overdraft on the City Treasury of three thousand five hundred dollars.

The expenses for the department year ending December 31, 1897, were two hundred eighty-three thousand one hundred seventy-one $\frac{7}{100}$ dollars. An itemized statement follows:

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ITEMS.	First quarter ending March 31.	Second quarter ending June 30.	Third quarter ending September 30.	Fourth quarter ending December 31.	TOTAL.
Electric Lights	$56,831 29	$57,442 17	$58,113 46	$58,124 11	$230,511 03
Gasoline	5,063 90	7,657 29	7,706 65	7,811 38	28,239 22
Gas	3,667 64	2,638 23	2,984 94	4,410 51	13,701 32
Lamplighters	3,031 78	1,512 54	1,420 28	1,563 85	7,528 45
Salary	425 00	425 00	425 00	425 00	1,700 00
Gas Company, Labor	186 74	248 37	272 45	232 36	939 92
Barn Expenses	157 47	94 40	77 49	78 31	407 67
Lamps and Ladders	16 25	.....	.....	.....	16 25
Stationery, Printing	.....	12 21	.....	5 30	17 50
Telephone	.....	.....	110 00	.....	110 00
	$69,380 07	$70,030 21	$71,110 27	$72,650 82	$283,171 37
Rec'd, Sale of Old Material	7 50	42 00	10 80	.....	60 30
Net Expenses	$69,372 57	$69,988 21	$71,099 47	$72,650 82	$283,111 07

The whole number of all kinds of public street lights in service December 31, 1896, as follows:

Electric arc lights	1,800
Gasoline lights	883
Gas lights	628
Incandescent lights	40
Naphtha lights	480
Total	3,831

The whole number of all kinds in service December 31, 1897, as follows:

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Electric arc lights	1,800
Gasoline lights	1,417
Gas lights . , ...	720
Incandescent lights	40
Total	3,977

An increase during the year of one hundred and forty-six.

Established during the year one hundred and eight (108) gas lights, and discontinued three (3).

Established during the year fifty-four oil lamps, and discontinued fifteen, replaced by gas.

ELECTRIC LIGHTING.

This service is furnished by the Narragansett Electric Lighting Company of this city, which, during the past year, has been very satisfactory, and the continued and earnest requests from citizen tax payers for additional electric lighting seems to be sufficient evidence in itself of its popularity.

The carefully prepared record of the hours of burning shows a very large percentage of constant service, during lighting hours; far ahead of any other electric street lighting that has come to the knowledge of this department.

Such a record was made possible by the system inaugurated by the company—of patroling the streets all night by men prepared to change or repair defective lamps.

At the request of this department in the early days of electric street lighting, the Narragansett Electric Lighting Company have started the lights, some thirty minutes earlier, and burned them thirty minutes longer in cloudy weather; which service, seemingly small, amounts in the aggregate considerable, and the company received no additional compensation.

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The one serious drawback to the city's having the full benefit of this most excellent service, is the trees that adorn many of the streets provided with electric lights; it has been estimated that fully twenty-five per cent of the light is lost by reason of the trees, which prevent its proper diffusion; hundreds of these trees are allowed year after year to grow small branches below the main branches, without being cut off; as these small branches add nothing to their beauty or usefulness, it would seem that a judicious trimming could be done without the least injury to their symmetry or usefulness, and save considerable expense to the city and improve the lighting service.

Were it not that the lamps were on arms, some of them twenty feet from the pole, there would not only be a necessity for more tree cutting, but more lamps would be required.

It is therefore hoped that some regular system of tree trimming will in the near future be inaugurated, as also the removal of all trees that are well advanced in decay; broken and disfigured by the elements, of which there are many left standing that are neither useful nor ornamental, only obstructions to sidewalk travel.

GAS LIGHTING.

The gas as formerly is furnished by the Providence Gas Company, the average quality and candle power compares favorably with former years.

The amount of gas consumed for street lighting was thirteen million fourteen thousand two hundred cubic feet at a cost of thirteen thousand six hundred sixty-five $\frac{32}{100}$ dollars.

During the year the Joint Standing Committee on Lamps had under consideration a devise for automatic gas lighting and extinguishing the same; the property of the National Gas Lighting Company of Boston, Mass., Mr. Shaw of the Company placed at the disposal of the Committee several of the machines which were put on the gas posts and there

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continued for several weeks; they proving a success in the performance of the work, and the expense of their use in the work was to be somewhat less than what is now paid for that service, decided to ask the City Council for authority to contract with the said Company for their use in lighting and extinguishing our gas lamps.

Therefore, in accordance with resolution number two hundred seventy-three (273), approved July 2, 1897, acting under the above resolution, the Committee contracted with the said Company for lighting and extinguishing the gas lights of the City in accordance with said resolution, and a contract was duly executed October 4, 1897.

GASOLINE LIGHTS.

These lights during the year were furnished by the Webster Oil Gasoline Co. of Boston, Mass.; this Company one year ago, came forward and bid in competition with the Globe Gas Light Company, and the Rising Sun Street Lighting Company.

The proposal from the Webster Oil and Gasoline Company proving to be more favorable to the City than the other proposals, was by the Joint Committee on Lamps accepted, and the contract awarded to them. The service of the said Company has been quite satisfactory during the year.

BROKEN LANTERNS.

The number of broken lanterns continues in excess of what should be if accident alone were the cause.

During the year two thousand and forty-seven have been found broken, brought in, and repaired.

Broken gas posts, accidental by runaway teams and other casualties, 10.

Unused gas posts removed for the furtherance of city improvements, 38.

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Fluid lamp posts, by reason of decay removed, and new ones set in their place, 13.

New fluid posts set up, 76.

New gas posts set up, 82.

LAMPLIGHTERS.

The lamplighters are required to light and extinguish the lamps under their charge, to keep the lanterns clean and in order for lighting at all times, to report at the department yard all defects of lanterns or fixtures at or before eight o'clock A. M.; also a statement is required on each Tuesday morning of the work performed the previous week.

CONCLUSION.

The annual appropriation for this department for the fiscal year ending September 30, 1898, was two hundred and eighty thousand dollars.

The expense for the first quarter ending December 31, 1897, was seventy-two thousand seven hundred fifty $\frac{87}{100}$ dollars, leaving an unexpended balance of two hundred and seven thousand two hundred forty-nine $\frac{13}{100}$ dollars.

To His Honor, the Mayor, and the several members of the lamp committee for their always ready and willing assistance rendered me during the year, I beg leave to extend my grateful acknowledgments.

Respectfully submitted,

OLIVER E. GREENE,

Superintendent of Lights.

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ANNUAL REPORT

OF THE

COMMISSIONER OF PUBLIC WORKS

UPON

BRIDGES,

FOR THE YEAR 1897.

[PRESENTED JANUARY 31, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., January 1, 1898.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

In compliance with the ordinances relative to the bridge department, the following report of the operations of the department from January 1, 1897, to January 1, 1898, is presented:

The amount expended for public bridges during the year was as follows:

From the appropriation for 1896–7, . .	$17,054 04
From the appropriation for 1897–8, . .	4,204 93
Total amount expended, . . .	$21,258 97

The unexpended balance of the appropriation for the fiscal year ending September 30, 1897, on hand was $75.17.

The amount of bills rendered the City Treasurer for collection on account of sale of old material was $789.00.

The condition of the appropriation for 1897–8 is as follows:

Amount appropriated for the fiscal year ending September 30, 1898, . . .	$25,000 00
Amount expended to January 1, 1898, . .	4,204 93
Unexpended balance January 1, 1898,	$20,795 07

A special appropriation of $320,000.00 was made April 20, 1897, for rebuilding Weybosset bridge and the river walls,

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and the expenditures to December 31, 1897, on account of the same, amounted to $71,693.26.

The following table shows the amount of bills approved, the transfer of supplies, and the total expenses for maintenance of the various bridges during the year 1897:

ACCOUNTS.	BILLS APPROVED.			MATERIAL TRANSFERRED AND SOLD.		Total Expense for Maintenance.
	For Salaries.	For all other Purposes.	Total.	Dr.	Cr.	
Acorn street bridge			$18 85			$18 85
Atwell's avenue bridge			1 57			1 57
Barn expenses			350 36			350 36
Branch avenue bridge			30 82	$2 19		33 01
Branch avenue culvert			3 44			3 44
Building at city yard			27 56			27 56
Burnside bridge			2 15	6 24		8 39
Charles street bridge			13 70	2 39		16 09
Crawford street bridge			5 69			5 69
Delaine street bridge			48 33	20 00		68 33
Eagle street bridge			65 78	1 87		67 65
Exchange bridge			1 60			1 60
Gaspee street bridge			33 70	16 31		50 01
Geneva bridge			15 73	84		16 57
Hawkins street bridge			42 83	10 54		53 37
Horses, wagons, etc.			113 84			113 84
Manton bridge			37 55			37 55
Mill street bridge			40 77	1 98		42 75
Park street bridge			18 00			18 00
Point street bridge	$3,980 75	$4,508 98	8,489 73	57 64	$4 25	8,543 12
Randall street bridge			24 50	2 19		26 69
Red bridge	2,084 50	1,347 30	3,431 80		654 47	2,777 33
Smith street bridge			4 05	10 84		14 89
Smithfield avenue bridge			40 63	7 59		48 32
Stevens street bridge			8 72			8 72
Sundries			668 88		27 25	641 63
Tar bridge, rebuild			1,894 98	41 75		1,936 73
Telephone lines			11 67			11 67
Tools			898 96			898 96
Valley street, north span			86 10	18 69		104 79
Valley street, south span			99 09	22 09		121 18
Veazie street bridge			27 67	7 68		35 35
Washington bridge	2,006 54	1,795 34	3,801 88	172 84	67 53	3,907 19
" " house rent			120 00			120 00
Wanskuck bridge			33 19	7 68		40 87
West River street bridge			9 68	1 30		10 98
Wheiden street bridge			22 42			22 42
Weybosset bridge			102 37	3 94		106 31
" " tests			73 97			73 97
Total						$20,385 75
Supplies			$536 41		$35 50	
Total			$21,258 97			

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The value of supplies on hand January 1, 1897, was $1,981.29; the amount paid for supplies, $536.41, makes $2,517.70, from which supplies when needed have been taken and charged to the various bridges.

The supplies on hand January 1, 1898, were valued at $2,046.62.

Repairs have been made upon the various bridges as follows:

POINT STREET BRIDGE.

This bridge has been closed to public travel for repairs and for dredging during the year as follows:

From 7 P. M. August 4th to 6 A. M. August 5th.
From 7 P. M. August 9th to 6 A. M. August 10th.
From 7 A. M. September 23d to 6 P. M. October 7th.

The upper and lower tracks and the equalizing rolls of the draw, which had been in constant use since the bridge was opened for travel in 1872, have been renewed, the tracks being made of rolled steel and the rolls of cast steel. Changes were made in the form of the upper track by which greater strength and stiffness of the drum have been secured. No other repairs of importance have been made, except the renewal of the wearing plank.

WASHINGTON BRIDGE.

This bridge has not been closed to public travel during the year. The two-inch oak and the two-inch spruce wearing plank have been renewed, and the work of painting the iron work has been begun and will be completed early the coming season. No other general repairs have been made.

RED BRIDGE.

This bridge has not been closed to public travel during the year. No general repairs have been made on this bridge, except some painting of the metal work beneath the floor,

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which had been corroded by the dripping of water which was probably impregnated with salt.

WEYBOSSET BRIDGE.

The City Council, by resolution approved April 20, 1897, directed the construction of a new bridge to replace the old Weybosset bridge. The contract for the abutments and piers was let on the same day, and the contract for the metal work May 15, 1897. In order to accommodate public travel at this location, provision was made in the contracts for doing the work in two sections, the first to be completed and opened for travel before travel was shut off from the other section. The first or northerly section was completed, except some painting of the metal work beneath, and opened for travel December 20, 1897, and the travel diverted from the other section the same day. Work has been begun on the second section and will be pushed forward as rapidly as possible. The inconvenience to the travelling public caused by even a partial closing of a crowded thoroughfare like that at Market square has demonstrated beyond question that the most permanent form of construction should be adopted at such locations rather than the cheaper but temporary bridging heretofore in use.

The bridge over the force main in line of Pontiac avenue near the Pettaconset pumping station has been repaired.

TAR BRIDGE.

The superstructure of this bridge, which is maintained jointly by the City of Providence and the Town of Johnston, was completed and opened for travel March 11, 1897, the old bridge having been closed to travel February 10, 1897. The superstructure, which is of steel throughout except the wooden planking, consists of two steel rivetted trusses about thirty-one feet apart and carrying transverse floor beams spaced about eight and one-half feet apart. Upon the floor beams rest the nine-inch I beams, which support four-inch yel-

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low pine planking. The wearing surface was intended to be two inches of Trinidad asphalt, but on account of the bad weather two-inch spruce was substituted, which when worn out will be replaced by asphalt. The sidewalks are planked with two by six-inch yellow pine laid with open joints. The bridge has been designed for a distributed load of one hundred pounds per square foot in addition to the weight of the bridge itself, and for a concentrated load of a twenty-ton steam road roller in any position.

All of the metal work of the two Valley street bridges, Manton Village bridge, Eagle street bridge and the railing and finish of various other bridges have been painted.

Sundry repairs have been made on various bridges from time to time as needed.

A careful examination of all the bridges has been made during the year.

The more important work expected during the coming season is as follows:

WEYBOSSET BRIDGE.

The work of rebuilding now in progress will be continued and probably completed early in the fall.

POINT STREET BRIDGE.

The cribwork, or draw protection, is in a very decayed and dilapidated condition, it having been in use since the bridge was opened for travel. Plans have been prepared and estimates made, and it is probable that it will become necessary to do this work another fall. The two-inch wearing plank will need renewing and the metal work above the floor will need painting.

WASHINGTON BRIDGE.

The two-inch wearing plank on the west approach will need renewing, and the metal work beneath the floor will

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need painting. Some of the dolphins and portions of the draw protection and fender piling are badly decayed and some renewals and repairs will be necessary during the coming season.

MILL STREET BRIDGE.

This bridge will soon need overhauling, and in view of the changes in this vicinity in connection with the proposed widening of Charles and Mill streets, it may become necessary to build an entirely new structure.

The wearing surfaces of the driveway of several of the bridges will probably need renewing or repairing during the year, and the superstructure of several of the bridges will need repainting.

In addition to the foregoing, sundry small bridges, together with the drawbridges, are liable to need repairs that cannot be anticipated or estimated for.

The following statement shows approximately the probable cost of the more important work needed on the various bridges for the ensuing year :

Name of Bridge.	Nature of Repairs.	Estimated Cost.
Weybosset bridge and river walls	To complete new structure, including extension to Burnside bridge	$148,000 00
Point street bridge	New draw protection, painting and sundry repairs	12,000 00
Washington bridge	Painting, repairs on piling and sundry repairs	3,000 00
Mill street bridge	New bridge on new lines	12,000 00
Various bridges	Painting and sundry repairs	5,000 00
	Total	$180,000 00

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Tables showing the passage of crafts through the drawbridges and the travel over Red bridge are appended.

The absence of complaints on the part of the travelling public and the navigation interests, and the freedom from serious accidents at each of the drawbridges reflect credit on the employés for their efficiency and carefulness.

Respectfully submitted,

ROBERT E. SMITH,

Commissioner of Public Works.

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The following table is compiled from the record of travel taken for the use of the Commission appointed to apportion the cost of the Red Bridge.

TRAVEL OVER RED BRIDGE,

For the Week Ending September 26, 1897.

Days of the Week.	Light and Heavy Teams.		Carriages.		Cars.		Bicycles Number.	Totals.		
	Number.	Occupants.	Number.	Occupants.	Number.	Occupants.		Vehicles, including bicycles and cars.	Passengers.	Pedestrians.
Monday	316	382	194	304	150	1,262	215	875	2,163	388
Tuesday	354	433	323	560	151	1,502	470	1,298	2,965	442
Wednesday	374	437	327	532	150	1,313	525	1,376	2,807	456
Thursday	336	420	285	438	152	1,236	294	1,067	2,388	398
Friday	338	430	270	428	149	1,256	159	916	2,275	469
Saturday	434	554	374	694	151	2,771	881	1,840	4,000	480
Sunday	43	61	545	1,247	159	4,017	1,089	1,836	6,414	917
Totals	2,195	2,717	2,318	4,203	1,062	13,357	3,633	9,208	23,910	3,550

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The following table shows a comparison of the total number of crafts which passed through the draw bridges during the last twenty years:

Name of Bridge.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.
Point street bridge.	30,640	35,369	33,984	31,323	33,878	29,465	22,056	22,525	23,505	24,301	24,789	26,090	30,255	26,387	25,530	23,598	20,801	21,884	22,307	20,790
Red bridge....	1,743	2,227	2,283	2,181	2,281	2,849	2,461	5,914	3,736	5,521	3,119	3,600	3,076	3,857	3,061	3,446	2,455	§2,552	2,283	2,204
Washington bridge, India Point....	.....	*2,961	2,974	2,782	2,675	3,183	3,210	†	.....	‡5,777	3,972	4,642	3,642	4,692	3,761	4,672	3,020	3,196	2,908	2,890

* For the last nine months of 1879. † Old bridge closed to travel June 23, 1885. ‡ New bridge, record began Feb. 12, 1887.

§ Old bridge closed to travel Feb. 22, 1895. New bridge opened to travel Dec. 23, 1895.

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The following table shows the greatest and average number of openings for any one day at the different drawbridges:

Name of Bridge.	Greatest number of Openings in Any One Day for 1897.	Daily Average Number of Openings for the Year 1897.
Point street bridge	88	40.1
Red bridge	20	3.6
Washington bridge	22	4.9

The great variation in the number of crafts passing through Red and Washington bridges for the different years is due to the towing through these bridges of the materials dredged from the Pawtucket river.

The following tables show the number of each kind and the total number of vessels that passed through the drawbridges during the year 1897:

POINT STREET BRIDGE.

Months.	Steamboats.	Towboats.	Sailing Vessels.	Sailboats.	Barges.	Miscellaneous.	Totals for the year.	Totals for previous year.	P'er cent. of increase and decrease.	Times draw was opened.	Average time from opening to closing draw. Min.
January	334	476	54	14	55	4	937	1,092	—14	701	3.07
February	286	403	37	6	76	6	814	993	—18	600	3.06
March	336	520	62	22	55	9	1,004	1,146	—12	754	3.02
April	379	701	95	47	49	69	1,340	1,659	—19	980	3.01
May	674	638	105	119	61	8	1,605	1,752	—08	1,220	2.96
June	1,372	763	108	131	71	21	2,466	2,439	+01	1,715	3.08
July	2,288	659	77	124	47	19	3,214	3,377	—05	2,125	3.28
August	2,322	707	71	100	89	6	3,295	3,316	—02	2,129	3.34
September	1,204	677	102	108	75	26	2,192	2,150	+02	1,211	3.12
October	356	606	88	105	69	9	1,323	1,678	—21	778	3.00
November	339	718	81	52	72	8	1,270	1,558	—18	936	3.00
December	408	769	67	19	50	17	1,330	1,117	+19	998	2.96
Totals	10,298	7,727	947	847	769	202	20,790	22,307	—07	14,147	3.11

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RED BRIDGE.

Months.	Steamboats.	Towboats.	Sailing vessels.	Sailboats.	Barges.	Miscellaneous.	Totals for the year.	Totals for previous year.	Per cent. of increase and decrease.	Times draw was opened.	Average time from closing to opening gates. Min.
January	.....	20	2	.....	7	14	43	64	—33	20	4.45
February	2	10	1	.....	.....	13	26	59	—56	12	4.00
March	.....	64	13	.....	19	15	116	101	+15	60	4.25
April	.....	80	26	.....	28	15	149	213	—30	79	4.11
May	10	96	22	1	56	9	194	177	+10	101	4.15
June	51	122	44	.....	52	20	289	283	+02	179	3.79
July	137	75	28	2	32	11	285	310	—08	210	3.70
August	158	110	25	1	62	14	376	335	+12	261	3.64
September	36	98	33	4	46	11	228	206	+11	135	3.73
October	2	82	16	1	41	13	155	162	—04	83	3.89
November	.....	84	12	.....	41	14	151	185	—18	85	3.86
December	.....	98	12	.....	58	24	192	188	+02	91	4.09
Totals	396	939	239	9	448	173	2,204	2,283	—03	1,307	3.85

WASHINGTON BRIDGE AT INDIA POINT.

Months.	Steamboats.	Towboats.	Sailing vessels.	Sailboats.	Barges.	Miscellaneous.	Totals for the year.	Totals for previous year.	Per cent. of increase and decrease.	Times draw was opened.	Average time from closing to opening gates. Min.
January	19	58	4	1	20	11	113	108	+05	72	4.44
February	21	24	1	.....	7	14	67	121	—45	44	4.16
March	26	98	23	1	32	17	197	135	+46	110	4.75
April	36	100	29	5	35	14	219	264	—17	124	4.56
May	34	105	19	13	54	11	235	213	+10	135	4.56
June	55	148	48	5	61	14	331	323	+02	199	4.59
July	128	120	36	3	45	15	347	351	—01	252	4.65
August	172	137	30	2	58	11	410	375	+09	283	4.44
September	33	126	36	8	54	14	271	260	+04	156	4.73
October	30	111	21	5	46	14	227	278	—18	136	4.53
November	23	104	14	1	49	18	209	232	—10	120	4.61
December	15	141	13	2	69	24	264	248	+06	149	4.63
Totals	592	1,272	274	45	530	177	2,890	2,908	—01	1,780	4.58

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THIRD ANNUAL REPORT

OF THE

Board of Fire Commissioners,

FOR

1897.

[Presented February 3, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

HEADQUARTERS FIRE DEPARTMENT,
OFFICE OF THE BOARD OF FIRE COMMISSIONERS,
CITY HALL, January 1, 1898.

TO THE HONORABLE THE CITY COUNCIL:

GENTLEMEN: In compliance with the provisions of Section 4, of Chapter 625 of the Ordinances, the Board of Fire Commissioners have the honor of herewith submitting for your consideration the annual report of the condition and operations of the department under their charge during the year ending December 31, 1897, the same being the third annual report submitted since the organization of the Board.

ORGANIZATION.

The Fire Department consists of twenty-eight companies, viz.:

12 Hose Companies.
8 Engine Companies.
7 Hook and Ladder Companies.
1 Protective Company.

MANUAL FORCE.

The manual force of the department consists of two hundred and forty-four permanent and seventeen call men, this being an increase of seven in the number of permanent men and a decrease of eight in the call force since the last report.

The Protective Department employ five permanent and two call men, making the total force of both departments,

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including the Board of Fire Commissioners, two hundred and seventy-one.

This force is classified as follows:

3 Fire Commissioners.
1 Clerk.

1 Chief Engineer.
1 Deputy Chief Engineer.
2 Assistant Engineers.
27 Captains.
27 Lieutenants.
1 Supply Clerk.
8 Enginemen.
8 Assistant Enginemen.
82 Hosemen.
42 Laddermen.
39 Drivers.

Fire Alarm Service:

1 Superintendent.
1 Assistant Superintendent.
3 Operators.

Call Force:

9 Hosemen.
8 Laddermen.

Protective Department:

1 Captain.
1 Lieutenant.
4 Permanent Covermen.
1 Call Coverman.

On January 9, 1897, the call men attached to Hose Company No. 13, Engine Company No. 14, and Hook and Ladder Company No. 2, were each granted an honorable dis-

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charge, and the permanent force of Hose Company No. 13 was increased by the appointment of one man, and that of Engine Company No. 14 by the appointment of two men. On the same date the force of Hose Company No. 18 was reduced from eight to seven men.

The fire at the Manton Mills on June 19, 1897, demonstrated the fact that if the company located in this section was to be continued in service steps should be taken to strengthen it, in order that more effective service might be rendered. The Board, therefore, soon after discarded the Chemical Engine used since 1889, and substituted, temporarily, in its stead, a Hose Wagon, together with a full complement of 2½-inch hose, and on November 1, 1897, three additional permanent members were assigned to duty at this station, and the company changed from Chemical Engine Company No. 3 to Hose Company No. 20.

On April 5, 1897, one permanent member was added to Engine Company No. 5, and on September 15, 1897, the call force of the same company was reduced by the transfer of one man to fill a vacancy on the permanent force of Hook and Ladder Company No. 7.

In 1896 one permanent member was detailed to act as department painter, and the paint shop was established at Fire Station No. 16. The member thus detailed was attached to Hook and Ladder Company No. 2, and as he was constantly employed upon the apparatus it was decided to transfer him to Engine Company No. 16, and this was accordingly done on October 1, 1897.

The changes occurring in the force during the past year have been as follows:

Appointed on the permanent force	9
Appointed on the call force	2
Transferred from call to permanent force	3
Transferred to other companies	25
Resigned from permanent force	1

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Resigned from call force	1
Honorably discharged from call force	7
Promotions	3
Deaths	2

The salaries of the following number of members of the permanent force have been increased during the year:

2	members	from	$2.00	to	$2.67	per day.
23	"	"	2.33	"	2.67	"
15	"	"	2.67	"	3.00	"

At the present time there are

140 Privates of the First Grade, who each receive $3.00 per day.

26 Privates of the Second Grade, who each receive $2.67 per day.

2 Privates of the Third Grade, who each receives $2.33 per day.

7 Privates of the Fourth Grade, who each receive $2.00 per day.

Captains each receive $3.50 per day.

Lieutenants $3.15, and Enginemen $3.25 per day.

Call men receive $250 per annum.

APPARATUS.

The "Champion" Chemical Engine, formerly located at Manton, has been exchanged for a Combination Hose Wagon and Chemical Engine. This apparatus was built by Charles F. Holloway, of Baltimore, Md., and was purchased through the agency of Mr. Charles N. Richardson, of this city. It was placed in service at Manton on December 18, 1897, and, in the opinion of the Board, should prove a valuable acquisition to the equipment of the department.

It is provided with two tanks, each of 35-gallons capacity, and carries 800 feet of 2½-inch hose, together with a full complement of ladders and other necessary appliances. It is

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far superior, in point of effectiveness, to the old style of chemical engine, and so favorably were the Board impressed with its merits that a contract was immediately made with Mr. Richardson for two Combinations of the same style and capacity, the chemical engines in service at Stations Nos. 6 and 7 to be taken in part payment therefor. Upon the completion and delivery of these Combinations they will be placed in service at the above named stations, and both the Chemical Engines and the Hose Wagons in service thereat will be dispensed with, as the new apparatus is designed to do the work now done by them.

By adopting this course the call force will be reduced three men, and an equal number of permanent men will be available and can be assigned to other companies which are now numerically weak. A less number of horses will be needed and a further saving in the amount now required for their care and maintenance will be effected.

The only other apparatus purchased during the year has been one exercise wagon built by Bernard McCabe of Pawtucket, R. I., and placed in service at Fire Station No. 1 on Exchange place.

The apparatus of the department, with the exceptions of Hook and Ladder Truck Nos. 3 and 4, is all in good condition and well adapted for this service. These trucks are the oldest in use and, in the opinion of the Board, it would be good policy to exchange them for similar apparatus of more modern construction, and it is their intention to take such action provided the condition of the appropriation for the maintenance of this department should warrant it.

The apparatus in service at the close of the year consisted of:

1 First size American Piston Engine.
1 Second size La France Piston Engine.
2 Second size Cole Brothers Piston Engines.

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1 Third size La France Piston Engine.
3 Third size Silsby Rotary Engines.
18 Four-wheeled Hose Wagons.
1 Steel Body Combination Hose Wagon and Chemical Engine.
1 Wood Body Combination Hose Wagon and Chemical Engine.
2 Babcock Chemical Engines.
1 First Size Hayes Hook and Ladder Truck.
2 Second size Hayes Hook and Ladder Trucks.
1 Third size Hayes Hook and Ladder Truck.
3 Roller Frame Hook and Ladder Trucks.
2 Protective Wagons (owned by the Protective Department).
22 Exercise Wagons.
4 Engineer's Wagons.

RESERVE APPARATUS.

The apparatus in reserve consists of :

1 Second size Silsby Rotary Engine.
1 Second size Hayes Hook and Ladder Truck.
1 Roller Frame Hook and Ladder Truck.
1 Hose Wagon.
1 Champion Water Tower.

All of this apparatus is in good condition and ready for immediate service.

HORSES.

In selecting horses for use in this department the greatest care is exercised, and none are accepted until after a thorough trial has demonstrated their fitness for the service.

It is of the utmost importance that they should be in condition at all times to perform the work required, and the nature of this work is such as to render it impossible to retain many of these animals for any extended period, and it

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therefore becomes necessary that frequent changes should be made.

It has been the policy of the Board to make these changes while the horses are in condition to command a fair price, instead of retaining them until they are broken down to such a degree as to render it necessary to dispose of them for little or nothing.

At the present time there are ninety horses in service, eighty-seven being attached to the various apparatus, and three being held in reserve.

HOSE.

One of the most essential factors in the successful prosecution of the work of this department is an ample supply of good serviceable hose, and the Board have exercised careful supervision in this matter in order that each company might be properly equipped.

The hard usage incident to the service renders the usefulness of the hose of short duration, and we are therefore compelled to replenish the stock on hand at frequent intervals. It is also important that a supply over and above the immediate needs of the department should be constantly kept in reserve, and during the past year 7,000 feet of 2½-inch, wax-treated hose of the Keystone Brand, has been purchased, and we now have in service, and in reserve, a total of 33,488 feet, as follows:

17,489 feet of 2½-inch Keystone Hose.
11,124 feet of 2½-inch Baker Hose.
1,749 feet of 2½ inch What Cheer Hose.
1,600 feet of 2½-inch Horseshoe Hose.
888 feet of 2½-inch Rubber Hose.
538 feet of 2½-inch Paragon Hose.
50 feet of 2½-inch Peerless Hose.

We also have 1,250 feet of 3½-inch of the Baker Brand.

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WATER.

The separate system of water service was completed and turned over to this department on October 12, 1897. It consists of 4,188 feet of 24-inch pipe; 22,961 feet of 16-inch pipe, and 2,215 feet of 12-inch pipe. This system is for fire purposes only and is not connected with the distribution mains of the old service in any manner. There are 89 hydrants connected therewith, and the pressure ranges from 90 to 120 pounds, and this pressure can be increased, in case of necessity by means of the engine at the Hope Pumping Station. The system is connected with the main leading to the Fruit Hill Reservoir, and this reservoir has an elevation of 274 feet above tide water. The service, unlike any other in the country of which the Board have knowledge, is ready for immediate use the moment the hydrant head is connected, and does not depend on the use of a fire boat or forcing pump. It extends throughout the principal portions of the business section, and, in the opinion of competent authorities, is one of the most valuable additions to our fire extinguishing facilities that has been made since the introduction of the Pawtuxet water in 1871.

Its value is so apparent that the Board do not hesitate to recommend that it be extended as soon as possible, in order that all of the business section, on both sides of the river, may be afforded protection.

The importance of the new service was promptly recognized by the insurance interests and a rebate of 5 per cent. was made on all risks within an average of two hundred feet of the pipe line. While this rebate directly benefits many of our citizens, yet the value of the service is such as to warrant a much larger reduction, and the Board believe that as soon as its advantages are more fully realized such reduction will undoubtedly be made.

The sum of $150,000 was appropriated in 1896 for this service, and the Commissioner of Public Works was directed

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to cause the work to be done in accordance with the recommendations submitted to the Council by the Board of Fire Commissioners. The entire cost of the system has been $143,202.55, and a charge of $12,248.72 has been made against this department for its use. This is at the rate of $10,024.18 per annum and is figured upon a basis of 7 per cent. of the total cost. While the service is especially designed for fire protection and should be charged against this department, still the Board are of the opinion that 7 per cent., or $112.00 per hydrant, is unreasonable, and up to this time they have declined to approve the bill.

The charge for water for hydrants connected with the old service continues to be made against this department. The amount charged for the present year is $28,480.00, making a total charge of $40,782.72 for both systems. This represents 12 per cent. of the total amount appropriated for the maintenance of this department, and while we are told that this is a "mere matter of bookkeeping," yet it means the addition of just that amount to the expenses of the Fire Department.

When the Board submitted their estimate of the amount required for the support of the department during the fiscal year ending September 30, 1898, they stated that $329,693 would be needed, and that if the charge for water was to be included an additional sum of $50,000 (this estimate being based upon the last bill rendered) would be required. The amount allowed by the Council for all expenses was $335,000, or $5,307 more than the estimate for salaries and general expenses.

If this department is compelled to pay for water at the rate charged, it is plain to be seen that an additional appropriation of $35,000 will have to be called for.

The Board have no means of ascertaining the cost of placing a hydrant in service, and the Commissioner of Public Works can cause as many to be located as he may consider necessary without in any manner consulting this Board, yet when it is stated that the hydrants, after being

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located are looked after by the members of this department, and that the amount expended for repairs, etc., during 1897, as shown by the report of the City Auditor, was but $76.14, it certainly appears as if a smaller charge should be made.

We are also told that the water which the department uses at fires amounts to but little and that the charge is for hydrants only. The bill, however, reads "For water for fire hydrants," and as the cost of procuring the hydrants and placing the same in service is provided for in the appropriation annually made for the maintenance of the Water Works, we see no reason why it should read otherwise. At the same time, the mains which supply these hydrants are the same as supply all business places and dwellings in the city, and while the Board are free to admit that it is extremely laudable to endeavor to show that the Water Works are more than self-sustaining, and very gratifying to be able to show that a handsome sum over and above the cost of maintenance is yearly set aside from the water rents for the purpose of paying the water debt, yet they fail to see wherein any gain is made by increasing the expenses of another department for this special object.

Since the construction of the Water Works the total receipts for water rents has been $7,824,357.69, and of this amount $776,642.57 has been paid by the city for water for fire hydrants. The cost of maintenance during the same period has been $1,819,931.41, and a simple computation will show that more than 40 per cent. of the amount expended for this purpose was derived from the charge for fire hydrants.

Certainly some action should be taken whereby this matter might be regulated by the City Council instead of leaving it, as it now is, to the discretion of one individual to charge whatever he may consider expedient, and the Board sincerely trust that the present year will witness the formulation of some plan by which a more equitable arrangement, both for our citizens and for this department, may be made.

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PROTECTIVE DEPARTMENT.

This department consists of one company of seven permanent and two call members, two of the permanent members being paid by the city. During the year just closed the insurance companies have provided for the transfer of two men from the call to the permanent force, thereby materially increasing the efficiency of the company.

The force is, however, none too large, but without doubt the companies have done all in this direction that the funds at their disposal will permit. The difficulty appears to be that only a part of the insurance companies contribute towards the support of the department, while all receive the benefit accruing from its work. This condition might be remedied by securing an amendment to the charter, under which the department is organized, making it compulsory on the part of all insurance companies doing business in the city to become members thereof. By this method ample funds could be obtained and the company maintained in the manner which its importance warrants.

No branch of the service accomplishes more towards reducing the fire loss, much valuable property having been saved through its timely action, and the members comprising the company are entitled to great credit for their intelligent and well directed efforts.

FIRE ALARM TELEGRAPH.

In their last annual report the Board called attention to the necessity of substituting the Central Office System of transmitting alarms for fire in place of the old automatic service.

A conference was had early in the year with the Joint Standing Committee on Fire Department relative to this matter, and soon after the subject was more fully presented to the City Council.

The Council was convinced that action should be taken and the City Solicitor was therefore directed to apply to the

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General Assembly for the passage of an act authorizing the city to hire the sum of $25,000 for the purchase and installation of a Central Office, and for the purchase and installation of eighty fire alarm boxes. This authority was granted, and on May 21, 1897, an ordinance was approved authorizing the Board of Fire Commissioners to purchase and install any, or all, of said apparatus, and on June 1, 1897, a contract was made with the Gamewell Fire Alarm Telegraph Company, through their agent, Mr. William E. Deccrow of Boston, Mass.

Work was immediately commenced on the new system, and on December 20, 1897, a test of the same was witnessed by the members of the City Council.

The Central Office is located in the City Hall in the room adjoining the battery room, and in completeness of detail and perfection of workmanship is superior to any similar plant in the country.

It gives the alarm in a fraction of the time required by the old method and enables the department to be well on the way to the fire where, by the former system the companies would be in their quarters waiting for the completion of the signal.

In enables alarms from any section of the city to come in at the same moment, if necessary, so that there is never an instant when a signal cannot be received from any quarter, no matter what may be going on in other parts of the system. It is equipped with devices which renders it perfectly feasible to receive an alarm over a wire temporarily so far disabled that no signal whatever could be obtained from that wire under the old method, and, in case of emergency, when it is vitally important to summon men and apparatus with the utmost certainty and speed, it is so far superior to the old system as to be beyond comparison.

The new service consists of a registering apparatus by means of which all incoming alarms are recorded in black ink and all outgoing alarms in red ink, thus preserving a com-

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FIRE ALARM CENTRAL OFFICE,
PROVIDENCE, R. I.

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plete record on a single strip of paper and forming a check of one class of alarms upon the other.

There is also a dual combination four-number circuit transmitter for ten metallic circuits, each dial so arranged as to be set separately, and capable of sending any combination of figures from one to nine thousand nine hundred and ninety-nine, so that the variety of signals of which it is capable is practically inexhaustible. It can also be arranged for transmitting continuous blows from one to twenty, and each dial is so constructed that after sending its signal it will automatically release the next dial if set.

There is also a special rapid combination transmitter so arranged that the operator may at once throw any one of the signal circuits into connection with the alarm circuits, thereby permitting the box number to go through to the fire stations without further manual intervention.

Each circuit in the combination is provided with locking devices, making it impossible for a signal coming in on any other circuit to interfere with, or interrupt, the circuit first thrown into combination with the alarm apparatus, and these devices are so arranged that while any signal from any one of the other signal circuits may come in and be recorded without interruption on the registering apparatus, these signals cannot possibly become confused with the alarm being sent out.

These devices are also so arranged as to operate at the highest speed desired, rendering the system, as a whole, absolutely non-interfering so far as confusion of one circuit with another is concerned, and they are also so arranged that rapid alarms may be sent through to one or more, or all sections of the city if it is so desired.

The system is thoroughly equipped with all necessary switchboards, circuit annunciators, lightning arresters, current protectors, box lists, relay magnets, telegraph keys, and measuring instruments.

The entire service is divided into twenty box circuits, five tapper circuits, and five bell and gong circuits, and the appa-

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ratus at City Hall has capacity for ten additional boxes; five gong and five tapper circuits which can be placed in service, from time to time, as the growth of the city may demand.

The battery, which is the life of the system, is of the well known storage type, and is vastly superior to the gravity battery used in connection with the former plant.

The plans for the central office were designed and arranged by Mr. Alden D. Wheeler, of the New England Gamewell Company of Boston, and the entire service was installed in accordance therewith and under his personal direction and supervision.

The total cost of the new system, including the fitting up of the room and eighty fire alarm boxes, has been $24,558.19, and the old automatic apparatus.

No addition has been made to the underground service during the year.

The views of this Board on the subject of extending this service were fully set forth in the last annual report, but they consider it their duty to again call attention to this important matter. It is of the most vital importance that the wires of the fire alarm should be so placed as to ensure the practical operation of the system at all times, and the only manner by which this end can be attained is by placing the wires in underground conduits. They would thus be beyond the possibility of contact with other wires, and what is of still more importance, would be protected from the effects of severe storms which are liable at any season of the year to render the entire ærial service useless. We have had two years' experience with that portion of the system placed underground, and it has never for an instant been out of service. There are many feet of conduit now laid ready for the reception of the fire alarm wires, and the Board, realizing the necessity for the work and believing that no more judicious an expenditure can be made, earnestly request that they be afforded the necessary funds to enable them to extend this service as soon as possible.

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The fire alarm service, aside from the apparatus at City Hall, consists of all necessary poles, wires, and other fixtures, together with :

294 Fire Alarm Boxes.
18 Alarm Bells and Strikers.
44 Gongs.
30 Tappers.

The Superintendent, Mr. Charles G. Cloudman, and his able corps of assistants, have devoted their entire time to the service, and to their painstaking care and watchful vigilance is largely due the success which has attended the work of this important branch.

MORTALITY.

By the death of Nathaniel G. Totten, the veteran batteryman, on August 1, 1897, the department sustained the loss of a most valued member.

Mr. Totten was the oldest member of the department, having been appointed on the permanent force September 15, 1859, and served continuously since that date. He filled the positions of Assistant Engineman and Engineman from 1859 until Engine Company No. 7 was made a Hose Company in 1867, when he was assigned to duty as hydrantman.

When the Fire Alarm was placed in service in 1871, Mr. Totten was given charge of the battery room at the Richmond Street station, performing this work in connection with his other duties until the removal of this service to the City Hall in 1878, when he was relieved from duty as hydrantman and assigned to the sole duty of batteryman.

For thirty-eight years he served the city with unswerving fidelity and discharged every task assigned him in a manner which won for him the esteem and confidence of all connected with the department, and the records of this city contains the name of no more faithful, conscientious, or efficient a servant than that of Nathaniel G. Totten.

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On June 2, 1897, the department lost another of its members by death, viz., Benjamin F. Clark, Engineman of Engine Company, No. 12.

Mr. Clark joined the Fire Department April 16, 1881, and was soon after assigned to Engine Company, No. 12. In 1883 he was promoted to the rank of Assistant Foreman, serving in this capacity until October 24, 1894, when he was assigned to the position of Engineman.

During his connection with the department he proved faithful and competent, and in his death the department suffered the loss of one who was ever ready and willing to do his duty.

CASUALTIES.

It is to be expected that in a calling like that of the Fire Department accidents will frequently occur, and he who takes service therein must expect to encounter dangerous risks. It is a matter for congratulation, however, that during the past year serious accidents have been of rare occurrence, for while a number of the members have met with injuries while in the discharge of their duties, yet none have been of such nature as to result in permanent disability.

Much has been said concerning provision being made whereby a pension fund might be created for the benefit of disabled firemen; and the Board are in hearty accord with any movement which will provide for the care of members who may be permanently disabled while in the performance of actual fire duty. They do not believe, however, that the city should bear the entire expense attendant upon the creation of a fund for this purpose.

The members of the department are the ones who would be directly benefited and they should be willing to contribute a small percentage of their wages to such a fund. Further sums might be obtained if the members of the force were permitted to make the necessary repairs to the various stations. These repairs could be done more economically

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than at present and a small charge per hour for each hour a member was thus actually employed might be credited to the fund. Other sources of income might be derived from moneys received for licenses for the sale of fireworks and gunpowder, fines imposed upon members of the fire department for violations of the rules and regulations, and all sums received from the sale of unserviceable personal property belonging to the department.

The Board find that other cities care for disabled firemen, and they believe the matter to be worthy the careful consideration of your honorable body.

EXPENDITURES.

The amount expended for the maintenance and improvement of the Fire Department during the year ending December 31, 1897, has been $364,129.48, as follows:

Regular expenses	$339,571 29
Central office system of Fire Alarm, fitting room for same, and 80 Fire Alarm Boxes	24,558 19

$258,133.38 of the amount paid for regular expenses was drawn from the appropriation for 1896-97, and $81,437.91 from the appropriation for 1897-98.

The purposes for which the regular expenditures have been made are as follows:

Salaries	$266,115 19
Water	25,267 71
Fire Alarm Telegraph	6,889 71
Hay, grain, and straw	8,961 53
Fire hose, apparatus and equipments	7,312 99
Fuel	4,254 61
Horses	3,500 00
Gas	3,149 16
Repairing apparatus	2,418 75
Horse shoeing	1,892 53
Disabled firemen	1,285 20
Supplies	2,089 29
Veterinary attendance	1,008 00
Laundry work	934 68
Bedding, towelling, and repairs	872 20
Extra horses	853 55
Printing and stationery	645 37

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Furniture and repairs	$524 72
Painting	430 77
Ice	219 15
Harness supplies and repairs	302 80
Rent	55 00
Other expenses	588 38
Total	$339,571 29

The condition of the appropriation for the fiscal year ending September 30, 1898, is at this date as follows:

Appropriation	$335,000 00
Amount expended, October 1, 1897, to December 31, 1897	81,437 91
Balance unexpended January 1, 1898	$253,562 09

FIRES AND LOSSES.

The past year has been one of remarkable immunity from disastrous fires, for while the number of alarms has been quite numerous, yet few have been sounded for fires of any magnitude. The promptness with which the alarms have been given, and the celerity with which the department has responded, has enabled them to quickly extinguish many fires which threatened to assume dangerous proportions.

The work done by the members of the force in causing rubbish and waste material of a combustible nature to be removed, has been an important factor in keeping down the fire loss, and it is safe to say that no more valuable results can be obtained than by the continuance of a careful and systematic method of inspection. The City Solicitor has been directed to apply to the General Assembly for the passage of an act enlarging the powers of the Board in this direction, and when this authority is granted we believe that greater progress will be made, and that many causes for fire which now exist can be readily removed.

The number of alarms received during the year has been 615. Of this number 312 were first alarms, 3 second alarms, 1 combined second and third alarm, and 299 still alarms.

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The loss occasioned by fire was, as near as the Board have been able to ascertain, $190,666.46, as follows:

Insured loss on buildings	$39,601 74
Uninsured loss on buildings	3,269 62
Total loss on buildings	$42,871 36
Insured loss on contents	$134,491 84
Uninsured loss on contents	13,303 26
Total loss on contents	$147,795 10

The amount of insurance involved, so far as the Board can learn, was $1,530,030, as follows:

Insurance on buildings	$969,500 00
Insurance on contents	560,530 00

The amount paid by the insurance companies in liquidation of losses has been $174,093.58.

The principal fires occurring during the year were as follows:

Feb.	14.	Box 238.	Dodge & Camfield's grocery store, 56-58 Exchange place.
April	28.	Box 172.	William Gilbane & Bros.'s planing mill, 20-26 Calais street.
May	9.	Box 453.	E. R. Randall & Co.'s planing mill, Fremont and Gano streets.
May	19.	Box 79.	Miller Iron Works Foundry, 516 Harris avenue.
June	19.	Box 85.	Manton Mills, Manton avenue.
July	6.	Box 135.	Raphael Ivandro's dwelling, 307 Douglas avenue.
Nov.	4.	Box 16.	George P. Peterson's hardware store, 188 Charles street.
Nov.	23.	Box 313.	W. P. Hale & Co.'s grain elevator, 139-153 South Water street.
Dec.	2.	Box 245.	Flint Company's furniture store, 148-154 Weybosset street.
Dec.	10.	Box 226.	Frank Slavin's barn, rear of Atwell's avenue.

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The following table exhibits the number of alarms, amount of loss, and insurance, and also amount of insurance paid in liquidation of losses, during each month:

MONTHS.	Alarms.		Loss.		Insurance.	Insurance Paid.
	Bells.	Stills.	Buildings.	Contents.		
January	29	19	$2,290 32	$4,916 66	$49,250 00	$3,829 79
February	23	21	1,964 56	10,489 88	296,600 00	11,929 44
March	23	20	1,235 10	1,135 00	108,900 00	1,950 70
April	23	29	9,843 72	16,168 80	102,430 00	24,812 01
May	27	32	5,724 73	11,960 10	84,250 00	14,088 53
June	28	30	4,707 47	35,193 25	257,000 00	35,091 12
July	26	16	2,560 55	4,196 70	98,400 00	4,836 50
August	22	12	1,303 85	559 95	73,100 00	1,513 80
September	21	26	884 96	491 12	68,850 00	1,152 89
October	37	38	1,118 81	1,351 15	38,350 00	1,379 81
November	26	34	4,147 00	5,586 49	94,280 00	9,543 49
December	31	22	7,180 29	55,744 00	263,700 00	61,965 50
Total	316	299	$42,871 36	$147,795 10	$1,530,030 00	$174,093 58

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The work performed by the various companies is given as follows:

HOSE.	Alarms Attended.		Absent from Station.			Number of Feet of Hose laid.	Number of Hydrant Streams used.	Number of Engine Streams used.	Number of Extinguishers used.
	Bells.	Stills.	Days.	Hours.	Minutes.				
1	73	9	2	01	03	12,900	18	1	27
2	56	10	1	22	23	9,350	19	.....	13
3	100	13	2	13	35	14,150	23	.....	30
4	73	16	2	9	42	10,350	22	2	52
5	36	4	1	22	30	6,450	10	.....	20
6	41	13	1	15	8	10,650	20	.....	9
7	75	5	1	22	.....	12,600	21	.....	6
8	106	14	3	3	8	14,600	25	1	34
9	100	26	3	20	48	13,350	24	1	70
10	35	13	1	7	25	6,050	13	.....	16
11	41	19	1	14	6	7,250	20	.....	42
12	65	6	2	16	48	8,500	15	2	20
13	86	12	2	10	05	11,000	20	.....	16
14	62	15	2	08	59	8,500	16	.....	23
15	50	28	2	10	28	11,400	19	.....	31
16	28	12	1	04	28	6,950	14	.....	29
17	70	12	2	17	11	14,600	24	.....	35
18	8	10	.....	16	50	4,050	9	.....	.....
19	50	3	1	08	48	3,839	7	1	8
20	25	.....	.....	17	21	400	1	.....	4

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ENGINES.	Alarms Attended.		Absent from Station.			Number of times Engine worked.	Number of Lines supplied.	Time in Service at Fires.	
	Bells.	Stills.	Days.	Hours.	Minutes.			Hours.	Minutes.
2	67	.....	1	11	30	1	2	3	.....
4	63	.....	1	11	02	2	3	3	15
5	36	.....	1	04	30	1	1	1	00
8	88	.....	2	01	02	.....	.....	.....	.....
10	43	.....	1	01	45	.....	.....	.....	.....
12	37	.....	1	06	35	1	1	3	30
14	40	.....	1	.....	55	2	4	4	30
16	20	.....	.....	14	14	.....	.....	.....	.....

CHEMICAL ENGINES.	Alarms Attended.		Absent from Station.			Number of Feet of Hose laid.	Number of Tanks used.	Number of Extinguishers used.	Number of Feet of Ladders raised.
	Bells.	Stills.	Days.	Hours.	Minutes.				
1	84	24	2	07	55	6,100	47	24	.....
2	45	22	1	22	15	4,900	36	18	.....
3	23	3	.....	23	35	1,200	8	8	.....
18	8	10	.....	16	50	900	8	16	122

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HOOK AND LADDER TRUCKS.	Alarms Attended.		Absent from Station.			Number of Feet of Ladders raised.	Number of times Aerial Ladder used.	Number of times Bangor Ladder used.	Number of Extinguishers used.
	Bells.	Stills.	Days.	Hours.	Minutes.				
1	64	10	2	02	05	2,099	.....	2	12
2	74	6	2	04	01	1,797	.....	.....	36
3	71	6	2	16	55	2,147	.....	.....	33
4	60	24	2	10	24	2,139	.....	2	25
5	43	5	1	11	00	1,247	.....	.....	22
6	65	21	2	29	35	2,603	1	2	45
7	27	3	1	09	15	1,210	.....	3	29

PROTECTIVE DEPARTMENT.	Alarms Attended.		Absent from Station.			Covers Spread.		Number of Extinguishers Used.
	Bells.	Stills.	Days.	Hours.	Minutes.	Roof.	Stock.	
No. 1 Wagon.....	139	3	4	05	53	5	278	7
No. 2 Wagon	209	21	8	18	26	16	225	24

CONCLUSION.

Before concluding this report the Board desire to again call attention to the urgent need of action being taken relative to providing more suitable quarters for the companies located in the station at the junction of Smith and Orms streets. This station has been repeatedly visited by members of the City Council during the last few years, and all have admitted that something should be done.

The Joint Standing Committee on City Property procured plans for a new station more than a year ago, and the matter

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is now in the hands of the Joint Standing Committee on Finance.

The building now occupied is one of the most miserably arranged that can be imagined, and is in no way adapted, either for the work of this department nor for the accommodation of the members stationed therein.

The companies stationed at this point respond not only to fires in the centre of the city, but are also called upon to protect a large and rapidly growing district in their immediate vicinity.

The accommodations are the same as when the station was first erected in 1875. At that time there were but four men and four horses quartered therein. To-day there are seventeen men and eight horses.

The Board do not believe that men should be compelled to remain in such narrow and contracted quarters twenty-one out of every twenty-four hours, neither should they be expected to sacrifice their health by being subjected to the conditions which are here presented, and they earnestly request, that if the necessary funds for a new station cannot be obtained in any other manner, that authority be secured without delay to hire a sufficient sum to enable us to erect a building which is greatly needed and which should have been constructed years ago.

In conclusion the Board desire to express their appreciation of the work performed by the officers and members of the department during the year just ended.

The success attending the labors of any department does not rest wholly with its management, but must of necessity be largely dependent upon the fidelity, skill, and zeal displayed by those to whom the execution of the work is entrusted; and these qualities have not been found wanting on the part of the members of this department. They have at all times been actuated by a desire to elevate the standard of the service to a still higher plane, and have ably seconded every effort of the Board in this direction, and no body of

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men in the employ of the municipality are more worthy of confidence; more deserving of praise than are those who comprise the rank and file of the Providence Fire Department.

Respectfully submitted,

STILLMAN WHITE,
WILLIAM H. LUTHER,
DEXTER GORTON,

Board of Fire Commissioners.

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FIRE DEPARTMENT

OF THE

CITY OF PROVIDENCE.

1898.

BOARD OF FIRE COMMISSIONERS.

OFFICE AT CITY HALL.

STILLMAN WHITE, *Chairman*,

Residence, 47 Park Street.

Term expires February, 1901.

WILLIAM H. LUTHER,

Residence, 65 Adelaide Avenue.

Term expires February, 1900.

DEXTER GORTON,

Residence, 72 Providence Street.

Term expires February, 1899.

CLERK,

JOHN W. MORROW,

Residence, 171 Prairie Avenue.

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CHIEF ENGINEER,

GEORGE A. STEERE,

Headquarters, Central Fire Station, Exchange Place.

Residence, 75 Broadway.

DEPUTY CHIEF ENGINEER,

HOLDEN O. HILL,

Headquarters, Central Fire Station, Exchange Place.

Residence, 21 Constitution Street.

ASSISTANT ENGINEER,

GEORGE F. BATTEY,

Headquarters, Station No. 4, Mill Street.

Residence, 76 Jewett Street.

ASSISTANT ENGINEER,

HORACE P. GRISWOLD,

Headquarters, Station No. 8, Harrison Street.

Residence, 12 Plain Street.

SUPPLY CLERK,

HENRY R. BEEHLER,

Residence, 46 McKinley Street.

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WASHINGTON

HOSE COMPANY NO. 1.

HOUSE AT EAST END OF EXCHANGE PLACE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
1	James M. Curtis	Captain	45	23 Orms street.
10	Thomas F. Sisson	Lieutenant	45	10 Anthony street.
11	Thomas H. Mullen	Hoseman	38	11 Orms street.
12	Charles A. Cook	"	44	59 Francis street.
13	Burrill Arnold	"	34	121 Broadway.
14	Walter Sonner	"	29	22 Mowry street.
15	Byron C. Howard	"	30	206 North Main street.
16	Walter H. Durfee	Driver	44	11 Andrew street.

Four-wheeled Hose Wagon built by F. P. Pearce Co., Providence, R. I., in 1891. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 10, 1891.

PIONEER

ENGINE COMPANY NO. 2.

HOUSE CORNER SOUTH MAIN AND COIN STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
2	Henry A. Wilkey	Captain	50	123 Thayer street.
20	Thomas J. Colburn	Lieutenant	52	65 Sheldon street.
21	Merrill E. Hicks	Engineman	68	1 Thayer street.
22	William H. Collins	Hoseman	30	368 Wickenden street.
23	John B. Miller	"	34	381 Wickenden street.
24	Owen McElroy	"	36	91 Lockwood street.
25	Daniel R. Munroe	"	31	135 Brook street.
26	John R. Sherman	"	43	201 Wickenden street.
27	Francis H. Morton, Jr.	"	23	271 Ohio avenue.
28	John E. Carlin	Driver of Tender.	46	158 Aborn street.
29	Thomas J. Morrissey.	Engine Driver	43	Fire Station.

Second-class Piston Engine built by the La France Fire Engine Co., Elmira, N. Y., in 1890. Drawn by two horses and weighs, ready for service, 8,495 pounds. Placed in service at Station 16, January 1, 1891. Removed to Station 2, January 18, 1892. Also, four-wheeled Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service June 15, 1892.

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FIRE KING

HOSE COMPANY NO. 3.

HOUSE ON POND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
3	Oscar F. Millett	Captain	51	113 Prairie avenue.
30	Thomas R. Gorton	Lieutenant	41	252 Pearl street.
31	Asa G. Davis	Hoseman	36	146 Clifford street.
32	William F. Maines	"	32	19 Hoyle street.
33	Henry MacLean	"	29	Fire Station.
34	Walter H. Hildreth	"	33	" "
35	Benedict P. Grant	"	31	17 Beacon avenue.
36	James H. Penney	Driver	36	285 Atwell's avenue.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,600 pounds. Placed in service June 18, 1895.

DEXTER GORTON

ENGINE COMPANY NO. 4.

HOUSE ON MILK STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
4	Reuben D. Weekes	Captain	39	734 North Main street.
40	Herman H. Fischer	Lieutenant	54	35 Sheldon street.
41	Michael O'Gara	Engineman	36	160 Transit street.
42	George H. Johnson	Hoseman	41	191 Friendship street.
43	Christopher J. Read, Jr.	"	29	668 Chalkstone avenue.
44	Charles S. Irwin	"	37	46 Lippitt street.
45	George H. Noon	"	38	8 Star street.
46	James E. Hackett	"	32	260 North Main street.
47	Ambrose B. Phillips	"	23	464 Chalkstone avenue.
48	Harry E. Carpenter	Driver of Tender.	27	13 Ringgold street.
49	George C. Woodbury	Engine Driver	57	14 Benefit street.

First-class Piston Engine, built by the American Fire Engine Co., Seneca Falls, N. Y., in 1896. Drawn by two horses, and weighs, ready for service, 8,940 pounds. Placed in service May 30, 1896. Also, four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1890. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,150 pounds. Placed in service November 28, 1890.

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NIAGARA

ENGINE COMPANY NO. 5.

HOUSE CORNER EAST AVENUE AND OLNEY STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
5	William F. Gavitt.....	Captain.....	41	56 Camp street.
50	Walter L. Damon..... ...	Lieutenant.....	38	46 Howell street.
51	Charles H. Handy..... .	Engineman.....	41	147 Doyle avenue.
52	John H. Goulding.....	Hoseman.....	58	53 Randall street.
53	Thomas Ryan.....	"	41	165 Lippitt street.
54	James W. Crawford.....	"	43	Berkshire street.
55	John Graham.....	"	31	12 Armstrong avenue.
56	John R. Babcock.....	Engine Driver...	47	Fire Station.
57	Charles H. McCold..... .	Driver of Tender.	27	37 Howell street.
58	Daniel Burdick.....	Call Hoseman....	48	152 Rochambeau avenue.
59	John G. McIntosh.	" "	49	215 Doyle avenue.

Piston Engine, built by Cole Brothers, Pawtucket, R. I., in 1869. Rebuilt by the same firm in 1891. Formerly in service at the station at the corner of North Main street and Doyle avenue. Removed to present location January 18, 1892. Drawn by two horses, and weighs, when ready for service, 7,330 pounds. Also, four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 900 feet of 2½-inch hose, and weighs, ready for service, 3,300 pounds. Placed in service July 31, 1892.

WATER WITCH

HOSE COMPANY NO. 6.

CHEMICAL ENGINE NO. 2.

HOUSE ON BENEVOLENT STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
6	Thomas W. D. Reynolds...	Captain.....	55	86 Benevolent street.
60	William H. Salisbury.. ...	Lieutenant.....	51	98 John street.
61	John H. Witchell.....	Hoseman.....	45	59 East George street.
62	Frank K. Wilkey.....	"	27	123 Thayer street.
63	Nicholas A. Falck.....	"	30	59 East George street.
64	John I. McKay.....	"	28	126 Doyle avenue.
65	Edmund H. Webber.....	Driver Hose Wgn	30	74 Benevolent street.
66	Otis P. Dill.....	Driver Chemical.	28	126 Thayer street.
67	Daniel P. Douglass	Call Hoseman...	47	282 Ives street.
68	Granville M. Borden.....	" "	46	175 Brook street.
69	Edward D. Fuller.....	" "	35	283 Brook street.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,600 pounds. Placed in service May 9, 1895. Also, Sixty-gallon Double Tank Chemical Engine, built by the Babcock Fire Extinguisher Manufacturing Co. of Chicago, Ill., in 1882. Drawn by two horses, carries 250 feet of ¾-inch hose, and weighs, ready for service, 3,950 pounds. Placed in service November 20, 1882.

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OCEAN

HOSE COMPANY NO. 7.

CHEMICAL ENGINE NO. 1.

HOUSE ON RICHMOND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
7	Thomas F. McNeal	Captain	46	191 Friendship street.
70	Abner G. Allen	Lieutenant	36	8 Courtwright street.
71	Frank M. Tillinghast	Hoseman	31	276 Dudley street.
72	David W. Capron	"	37	105 South street.
73	Mahlon D. Brown	"	39	265 Dudley street.
74	George A. Capron	"	38	252 Pine street.
75	Patrick H. Hackett	"	27	260 North Main street.
76	George H. Goff	"	37	8 East Beacon street.
77	George M. Hayward	"	30	26 West Friendship street.
78	Everett E. Potter	Driver Chemical.	32	10 Bassett street.
79	Ellsworth E. Blackinton	Driver Hose Wgn	37	105 South street.

Four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,340 pounds. Placed in service March 2, 1892. Also, Sixty-gallon Double Tank Chemical Engine, built by the Babcock Fire Extinguisher Manufacturing Co. of Chicago, Ill., in 1882. Drawn by two horses, carries 200 feet of ¾-inch hose, and weighs, ready for service, 3,900 pounds. Placed in service November 18, 1882.

ATLANTIC

ENGINE COMPANY NO. 8.

HOUSE ON HARRISON STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
8	Joseph H. Penno	Captain	55	945 Westminster street.
80	Frank E. Taber	Lieutenant	38	109 Tobey street.
81	Thomas Brannigan	Engineman	53	21 Miller street.
82	Stephen C. Miller	Hoseman	34	26 Division street.
83	John W. Booth	"	33	1111 Westminster street.
84	Patrick J. Smith	"	38	312 Knight street.
85	Frederick C. Walden	"	25	39 Harrison street.
86	William E. Viall	"	34	41 Harrison street.
87	Nicholas T. Feely	Driver of Tender.	38	26 Gilmore street.
88	John L. Mathewson	Engine Driver	41	110 Hudson street.

Third-class Rotary Engine, built by the Silsby Manufacturing Co., Seneca Falls, N. Y., in 1890. Drawn by two horses, and weighs, ready for service, 6,620 pounds. Placed in service June 10, 1890. Also, four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,000 pounds. Placed in service July 1, 1892.

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JOHN W. TILLINGHAST

HOSE COMPANY NO. 9.

HOUSE CORNER ATWELLS AVENUE AND AMERICA STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
9	Philip W. Kelly	Captain	61	257 Dean street.
90	William W. Kelly	Lieutenant	36	257 Dean street.
91	John H. Hall	Hoseman	29	43 Bradford street.
92	Herbert B. Kelly	"	29	111 Sutton street.
93	William E. Gardiner	"	30	20 Penn street.
94	Frank E. Bailey	"	33	46 Federal street.
95	Harry R. Angell	"	25	479 Washington street.
96	Charles B. Atwood	Driver	34	11 Bond street.

Four-wheeled Hose Wagon, built by F. P. Pearce & Co., Providence, R. I., in 1896. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,560 pounds. Placed in service February 19, 1896.

WASHINGTON

ENGINE COMPANY NO. 10.

HOUSE ON BURNSIDE STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
105	John H. Capron	Captain	44	88 Burnside street.
150	William F. Coffin	Lieutenant	47	92 Ocean street.
151	Francis D. Chester	Engineman	69	397 Prairie avenue.
152	Andrew J. Fisher	Hoseman	24	Fire Station.
153	George H. Simmons	"	37	14 Salisbury street.
154	Samuel Loxley	"	29	408 Plain street.
155	Byron I. Keech	Engine Driver	44	433 Prairie avenue.
156	Thomas H. Jones	Driver of Tender	30	150 Potter avenue.
157	Charles H. Le Clair	Call Hoseman	23	357 Public street.

Third-class Rotary Engine, built by the American Fire Engine Company, Seneca Falls, N. Y., in 1893. Drawn by two horses, and weighs, ready for service, 6,600 pounds. Placed in service February 8, 1893. Also, four-wheeled Hose Wagon built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 18, 1893.

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ELMWOOD

HOSE COMPANY NO. 11.

HOUSE ON OAKLAND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
106	Benjamin F. Harrington...	Captain.....	41	166 Stanwood street.
160	Walter A. Vaughan.....	Lieutenant.....	30	25 Burnett street.
161	William A. Orr.....	Hoseman	35	648 Potters avenue.
162	Frederic H. Field	"	68	144 Lexington avenue.
163	William A. Millard.....	"	38	43 Bellevue avenue.
164	Albert A. Holbrook..	"	26	162 Stanwood street.
165	Clifton A. Spafford.....	"	38	46 Redwing street.
166	Edward F. Curtis.....	Driver.	28	648 Potters avenue.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,600 pounds. Placed in service May 18, 1895.

STILLMAN WHITE

ENGINE COMPANY NO. 12.

HOUSE JUNCTION OF SMITH AND ORMS STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
107	Edwin G. Andrews.....	Captain.....	33	19 Winsor street.
170	Horace S. Blake.....	Lieutenant.....	40	Fire Station.
171	Charles H. Shippee.....	Engineman.....	38	206 Smith street.
172	Robert H. Waller.....	Hoseman	36	42 Pekin street.
173	Albert J. Fleckhamer.....	"	32	157 Jewett street.
174	Thomas H. Jenckes.....	"	44	119 Jewett street.
175	Clarence C. Thomas.....	"	24	11 Inkerman street.
176	Frank H. Linnell	Engine Driver...	30	79 Goddard street.
177	Leprelett W. Esten.....	Driver of Tender.	41	316 Orms street.
178	George E. Jenckes.....	Call Hoseman....	47	119 Jewett street.

Piston Engine, built by Cole Brothers, Pawtucket, R. I., in 1870. Drawn by two horses, and weighs, ready for service, 7,250 pounds. Placed in service January, 1871. Also, four-wheeled Hose Wagon built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 28, 1893.

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GOOD WILL

HOSE COMPANY NO. 13.

HOUSE ON CENTRAL STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
108	Hiram D. Butts	Captain	72	187 Dexter street.
180	Daniel A. Nichols	Lieutenant	32	24 West Friendship street.
181	Owen Trainor	Hoseman	44	Fire Station.
182	Joseph Devine	"	41	49 Central street.
183	Robert Bucklin	"	32	162 Clifford street.
184	Edward H. Washington	"	32	293 Pearl street.
185	George H. Webber	"	24	16 Clarke's court.
186	George Barbour	Driver	42	641 Cranston street.

Four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 600 feet of 2½-inch hose, and weighs, ready for service, 3,000 pounds. Placed in service October 4, 1892.

PUTNAM

ENGINE COMPANY NO. 14.

HOUSE ON PUTNAM STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
189	Lewis A. Cutler	Captain	48	33 Cambridge street.
190	Peter Greene	Lieutenant	46	90 Academy avenue.
191	Robert G. Haskins	Engineman	42	4 Kepler street.
192	Isaac L. Blackmar	Hoseman	59	621 Atwell's avenue.
193	Nicholas Waterman	"	48	Fire Station.
194	Frank E. Carberry	"	32	103 Putnam street.
195	John Regan	"	37	360 Manton avenue.
196	Charles W. Sherman	Driver of Tender.	37	140 Julian street.
197	Patrick Kelley	Engine Driver	29	52 Sears avenue.

Third-size Piston Engine, built by the La France Fire Engine Company, Elmira, N.Y., in 1893. In reserve until August 9, 1895, when it was placed in service with Engine Co. No. 14. Drawn by two horses, and weighs, ready for service, 6,560 pounds. Also, four-wheeled Hose Wagon, built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, and weighs, ready for service, 3,200 pounds. Placed in service May 29, 1893.

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WHAT CHEER

HOSE COMPANY NO. 15.

HOUSE ON WICKENDEN STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
200	Thomas H. Duffy	Captain	39	21 Armstrong avenue.
201	Charles T. Witchell	Lieutenant	42	74 Armstrong avenue.
202	Henry Charlwood	Hoseman	47	23 Lockwood street.
203	Frank A. Scott	"	46	368 Wickenden street.
204	Jeremiah Splan	"	39	122 Tockwotton street.
205	William S. Fenner	"	36	154 Transit street.
206	John L. Keith	Driver	39	88 South street.
207	William Patterson	Call Hoseman	56	261 Wickenden street.
208	William J. Gray	" "	28	16 Governor street.

Four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service March 25, 1892.

ENGINE COMPANY NO. 16.

HOUSE CORNER BRANCH AVENUE AND CHARLES STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
230	Lewis A. Lusignan	Captain	38	383 Branch avenue.
231	Henry M. Briggs	Lieutenant	38	66 Chatham street.
232	William H. Glassgow	Engineman	57	359 Branch avenue.
233	William J. Sumption	Hoseman	36	25 Langdon street.
234	Freeman A. Richardson	"	38	261 Admiral street.
235	Joseph H. Davis	"	32	370 Branch avenue.
236	Andrew C. Wrisley	"	35	1111 Westminster street.
237	John J. O'Connor	Engine Driver	32	Cor. Charles & Hawkins sts.
238	John C. Kennedy	Driver of Tender.	42	470 Branch avenue.

Third-class Rotary Engine, built by the Silsby Manufacturing Company, Seneca Falls, N. Y., in 1891. Drawn by two horses, and weighs, ready for service, 6,640 pounds. Placed in service May 9, 1891. Also, four-wheeled Hose Wagon, built by Moulton & Son, Providence, R. I., in 1885; rebuilt by F. P. Pearce & Co., Providence, R. I., in 1891, and remodeled by Lewis L. Fales, Providence, R. I., in 1892. Formerly in service at Station No. 2. Placed in service with Engine Co. No. 16, August 23, 1892. Drawn by two horses carries 700 feet of 2½-inch hose, and weighs, ready for service, 2,800 pounds.

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HOSE COMPANY NO. 17.

HOUSE CORNER NORTH MAIN STREET AND DOYLE AVENUE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
240	William H. Garvin	Captain	49	83 Jefferson street.
241	James H. Dean	Lieutenant	42	84 Doyle avenue.
242	Charles W. Gillooly	Hoseman	46	585 Douglas avenue.
243	John J. Banks	"	35	39 Douglas avenue.
244	Robert P. Patterson	"	34	76 Pleasant street.
245	Michael H. Cavey	"	45	48 Padelford street.
246	Edward J. Nagle	"	30	59 Commodore street.
247	George A. Bugbee	Driver	48	Rear 19 Liberty street.

Four-wheeled Hose Wagon built by F. P. Pearce & Co., Providence, R. I., in 1891. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,570 pounds. Placed in service January 18, 1892.

OLIVER E. GREENE

HOSE COMPANY NO. 18.

HOUSE JUNCTION BROAD AND RUGBY STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
260	William H. Johnson	Captain	61	1350 Broad street.
261	Henry B. Hall	Lieutenant	49	130 Oxford street.
262	Joseph W. Johnson	Hoseman	36	298 California avenue.
263	James T. Goff	"	29	1415 Broad street.
264	Bernard F. Sisson	"	32	52 Calla street.
265	Frank L. Thomas	"	38	98 Congress avenue.
266	John A. Worth	Driver	43	41 Colfax street.

Steel Frame Combination Hose Wagon and Chemical Engine, built by the Fire Extinguisher Manufacturing Company, Chicago, Ill., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, is equipped with a 50-gallon tank, and weighs, ready for service, 4,940 pounds. Placed in service November 30, 1895.

HOSE COMPANY NO. 19.

HOUSE ON HAYMARKET STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
17	John Hutchison	Captain	35	18 Olney street.
167	Leander D. Dawley	Lieutenant	51	27 Bernon street.
168	Albert L. E. Cornell	Hoseman	26	74 Arthur avenue.
169	Frank N. Benchley	Driver	44	405 Benefit street.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1887. Drawn by one horse, carries 800 feet of 2½-inch hose, and weighs, ready for service, 2,630 pounds. In reserve from 1887 to July 30, 1891, when it was placed in service at Station No. 1. Removed to present location October 23, 1895.

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HOSE COMPANY NO. 20.

HOUSE ON MANTON AVENUE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
18	Thomas McCold	Captain	40	905 Manton avenue.
187	James Dowling	Lieutenant	42	7 Riverdale street.
188	William Benford	Hoseman	36	419 Manton avenue.
189	James B. Mulcahey	"	31	94 West River street.
231	John H. Fischer	"	22	35 Sheldon street.
232	John H. Carley	"	32	38 Riverdale street.
233	Frederick L. Capron	Driver.	59	757 Manton avenue.

Frame-body Combination Hose Wagon and Chemical Engine, built by Charles T. Holloway, Baltimore, Md., in 1897. Drawn by three horses, carries 800 feet of 2½-inch hose, is equipped with two 35-gallon tanks, and weighs, ready for service, 5,660 pounds. Placed in service December 18, 1897.

HAYES

HOOK AND LADDER COMPANY NO. 1.

HOUSE EAST END OF EXCHANGE PLACE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
39	Joseph W. Carpenter	Captain	45	1 North Court street.
101	Joseph D. Kent	Lieutenant	45	Fire Station.
110	William Burke	Ladderman	37	39 Douglas avenue.
111	Charles R. Wyatt	"	41	18 Arnold street.
112	Hugh McCartin	"	37	242 Atwell's avenue.
113	William H. Buffum	"	53	395 Orms street.
114	John W. MacKenzie	"	36	180 Potter avenue.
115	Frank Kenney	"	41	128 Point street.
116	Clement D. Pelrine	"	25	370 Richmond street.
117	Updike C. Mowry	"	28	34 Cherry street.
118	Nahum E. Willard	"	28	Fire Station.
119	Howard E. Sherburne	Driver	37	191 Sherburne street.

First-size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1884. Drawn by three horses, and weighs, ready for service, 8,000 pounds. Longest ladder, 85 feet extension. Placed in service March 20, 1884.

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HAYES

HOOK AND LADDER COMPANY NO. 2.

HOUSE ON HARRISON STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
102	Frank E. Atkinson	Captain	41	6 Dawson street.
120	Charles O. Messinger	Lieutenant	42	44 Brighton street.
121	Henry W. Irwin	Ladderman	39	64 Dexter street.
122	Isaac W. Wyatt	"	37	1111 Westminster street.
123	Richard J. Powers	"	28	768 Potter avenue.
124	Patrick C. Henry	"	36	32 Gilmore street.
125	George A. Brown	"	44	104 Gesler street.
126	David A. Bigney	"	33	1111 Westminster street.
127	George W. Harding	Driver	39	58 Harrison street.

Second size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1889. Placed in service January 1, 1890. Wrecked by falling walls at the fire of the J. B. Barnaby Co., December 13, 1890. Rebuilt by the La France Fire Engine Co., and placed in service February 12, 1891. Drawn by three horses, and weighs, ready for service, 7,000 pounds. Longest ladder, 65 feet extension.

UNION

HOOK AND LADDER COMPANY NO. 3.

HOUSE JUNCTION SMITH AND ORMS STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
103	James C. Hubbard	Captain	51	324 Orms street.
130	George Golding	Lieutenant	47	221 Orms street.
131	Edwin H. Day	Ladderman	57	23 Candace street.
132	Thomas H. Gibbons	"	36	100 Lydia street.
133	William J. Young	"	39	478 Smith street.
134	William H. Holbrook	"	51	283 Smith street.
135	Thomas E. Crockett	"	44	56 Felix street.
136	William A. Berry	Driver	38	21 Candace street.
137	William Dunlap	Call Ladderman	45	316 Orms street.
138	George M. Gardiner	" "	43	26 Pekin street.
139	Frederic L. Smith	" "	37	114 State street.

Roller Frame Truck, built by Ryan Brothers, Boston, Mass., in 1882. Drawn by two horses, and weighs, ready for service, 6,575 pounds. Longest ladder, 50 feet Bangor Extension. Placed in service July 14, 1882.

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JOHN B. CHACE

HOOK AND LADDER COMPANY NO. 4.

HOUSE ON WICKENDEN STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
104	Adelbert A. Hopkins.....	Captain...	43	Fire Station.
140	Edmund B. Peck.....	Lieutenant.....	50	187 Wickenden street.
141	William S. Robinson	Ladderman.....	36	32 Arnold street.
142	James E. Hall.....	"	32	230 Wickenden street.
143	James F. McDonald	"	26	121 Tockwotton street.
144	Frank A. Eldred.....	"	24	46 Armstrong avenue.
145	George T. Lawder.	"	39	Fire Station.
146	Martin Kane.....	Driver	33	69 Arnold street.
147	Thomas M. Dawson.....	Call Ladderman..	48	47 Sheldon street.
148	Gordon Kerr.....	" " ..	50	28 Thayer street.

Roller Frame Truck, built by Moulton & Remington, Providence, R. I., in 1866. In service with Hook and Ladder Company No. 1, from 1866 to 1875. In reserve from 1875 to June 1, 1877, when it was placed in service with Hook and Ladder Company No. 4. Drawn by two horses, and weighs, ready for service, 5,250 pounds. Longest ladder, 50 feet Bangor Extension.

WILLIAM H. LUTHER

HOOK AND LADDER COMPANY NO. 5.

HOUSE CORNER PUBLIC AND BURNSIDE STREETS

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
210	Benson W. Johnson.....	Captain.....	66	362 Prairie avenue.
211	James R. Davis.....	Lieutenant.....	47	35 Chester street.
212	Fred A. Wallace.....	Ladderman.....	42	376 Public street.
213	Charles H. Carpenter.....	"	31	23 Salisbury street.
214	Charles W. Moore.....	"	38	37 Bogman street.
215	Gilbert S. Inman.....	"	26	26 Laura street.
216	Felix Rush.....	"	36	105 Miner street.
217	Clarence E. Horton.....	Driver.....	34	91 Potter avenue.
218	Crawford A. Cornell.....	Call Ladderman..	43	475 Public street.
219	George H. Thurston.....	" " ..	34	413 Public street.
258	Edward J. Hall.....	" " ..	26	130 Oxford street.

Roller Frame Truck built by Moulton & Son, Providence, R. I., in 1885. Drawn by two horses, and weighs, ready for service, 5,000 pounds. Longest Ladder, 50 feet Bangor Extension. Placed in service April 1, 1885.

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HAYES

HOOK AND LADDER COMPANY NO. 6.

HOUSE CORNER ATWELLS AVENUE AND AMERICA STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
220	William F. Smith.....	Captain.....	36	48 Harrison street.
221	William E. Sullivan.....	Lieutenant.....	35	157 Federal street.
222	John E. Meledy.....	Ladderman.....	35	100 Gesler street.
223	Michael J. Dugan.....	"	34	176 Amherst street.
224	Michael H. Farrell.....	"	34	8 Ridge street.
225	Robert H. McDonald.....	"	27	65 Brayton avenue.
226	Christopher Carpenter.....	"	41	65 Harrison street.
227	James Mulgrew.....	"	27	Fire Station.
228	William J. Sherman.....	"	28	476 Atwell's avenue.
229	James McCartin.....	Driver.....	44	18 Penn street.

Second-size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1892. Drawn by three horses and weighs, ready for service, 7,500 pounds. Longest ladder, 65 feet extension. Placed in service September 1, 1892.

HAYES

HOOK AND LADDER COMPANY NO. 7.

HOUSE CORNER EAST AVENUE AND OLNEY STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
250	Charles J. Connor.....	Captain.....	44	Fire Station.
251	John F. Stackpole.....	Lieutenant.....	47	19 Olney street.
252	Walter A. Manchester.....	Ladderman.....	31	Fire Station.
253	John D. Murphy.....	"	31	" "
254	Edward S. Doherty.....	"	33	91 Lippitt street.
255	Edward C. Becker...	"	30	147 Doyle avenue.
256	Benjamin N. Brown.....	"	40	88 Bacon street.
257	James P. O'Sullivan.....	Driver.....	33	16 Highland street.

Third-size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., in 1891. Drawn by two horses. Longest ladder, 60 feet extension. Placed in service, January 18, 1892.

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PROVIDENCE PROTECTIVE COMPANY NO. 1.

HOUSE ON RICHMOND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
	Charles H. Swan	Captain	60	227 Friendship street.
	David G. Knott	Lieutenant	43	214 Friendship street.
	James R. McLean	Coverman	35	39 Maple street.
	Herbert L. Burrows	"	29	24 West Friendship street.
	Walter A. C. French	"	25	Fire Station.
		"	..	
37	George T. Lonergan	Driver	31	41 Pearl street.
100	Manuel Burgess	"	35	10 Alphonso street.
	Ernest R. Quimby	Call Coverman	26	631 North Main street.

No. 1 Wagon, built by J. Jeremiah, of New York, N. Y., in 1874. Rebuilt in 1890 by Lewis L. Fales, of Providence, R. I. Drawn by two horses, carries 34 tarpaulins, and weighs, ready for service, 3,700 pounds. Placed in service at station on Haymarket street, February 1, 1875, and removed to station on Exchange Place, a short time later. Removed to Richmond street, March 9, 1891.

No. 2 Wagon, built by Archibald Martin, of Providence, R. I., in 1891. Drawn by two horses, carries 19 tarpaulins, and weighs, ready for service, 2,700 pounds. Placed in service April 1, 1891.

FIRE ALARM TELEGRAPH.

CITY HALL.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
	Charles G. Cloudman	Superintendent	60	31 Hospital street.
19	Arthur D. Sayward	Assistant Supt.	31	116 Clifford street.
97	Abner S. Tompkins	Lieutenant	30	28 Doyle avenue.
98	Herbert H. Totten	Operator	35	135 Burnside street.
99	Thomas F. Carey	"	41	75 Brook street.
	Walter S. Brown	Lineman	22	104 America street.

Gamewell, Central Office System. Placed in service January 3, 1898.

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SUMMARY OF EXPENDITURES

Company.	Salaries.	Grain.	Hay and Straw.	Horse Shoeing.	Laundry Work.	Repairs.	Fuel.	Gas.	Veterinary.
Hose No. 1	$8,818 58	$78 18	$134 56	$47 75	$34 39	$88 87	$69 10	$106 63	$6 00
Engine No. 2	11,867 83	144 60	261 44	93 85	42 24	51 51	187 62	202 44	44 00
Hose No. 3	8,227 85	75 20	106 96	45 51	25 88	15 01	117 10	115 29	17 00
Engine No. 4	11,919 25	156 36	269 12	83 85	44 53	98 00	133 00	216 52	36 00
Engine No. 5	9,333 93	118 88	284 10	89 89	30 26	284 32	216 26	104 09	57 00
Hose No. 6	5,949 57	69 99	146 18	36 00	17 64	18 20	66 93	51 66	6 00
Hose No. 7	8,530 30	61 76	129 29	63 11	33 72	52 00	91 53	62 32	15 00
Engine No. 8	10,755 92	156 52	269 36	99 76	34 39	198 70	263 90	121 38	63 50
Hose No. 9	8,623 79	65 76	121 62	31 75	28 58	27 75	169 35	117 92	5 00
Engine No. 10	8,553 82	130 24	306 44	64 75	36 54	51 66	185 45	72 45	68 00
Hose No. 11	8,317 20	68 95	135 81	26 23	32 36	10 76	135 70	105 00	6 00
Engine No. 12	9,647 86	167 68	249 72	79 50	35 78	84 80	175 08	76 55	86 00
Hose No. 13	8,560 55	64 34	162 02	48 25	23 84	13 02	119 60	107 31	10 00
Engine No. 14	9,599 01	141 67	283 49	83 38	33 34	113 35	148 50	158 76	99 00
Hose No. 15	8,246 19	71 58	161 04	49 03	30 60	135 82	.....	217 35	17 00
Engine No. 16	8,704 11	150 38	261 40	75 75	28 70	42 00	232 95	62 79	17 00
Hose No. 17	8,666 52	85 50	158 45	43 70	33 56	33 25	130 00	63 42	10 00
Hose No. 18	7,578 60	83 03	98 95	42 88	30 28	63 95	204 00	64 05	55 00
Hose No. 19	4,030 56	33 34	60 03	24 50	18 48	52 10	56 63	65 00	7 00
Hose No. 20 / Chemical No. 3	4,970 75	107 02	138 35	41 00	15 22	76 06	133 00	76 23	9 00
H. & L. No. 1	12,471 78	117 27	201 78	54 25	54 39	29 58	69 10	106 62	19 00
H. & L. No. 2	9,273 43	85 63	152 63	63 64	35 34	35 25	130 00	52 93	22 00
H. & L. No. 3	9,386 09	83 84	124 86	39 00	27 08	26 77	175 07	76 54	18 00
H. & L. No. 4	9,039 89	93 13	135 99	57 69	28 54	75 97	195 10	94 50	62 00
H. & L. No. 5	9,243 51	64 98	112 84	48 75	31 36	110 20	124 80	84 21	4 00
H. & L. No. 6	10,666 97	98 64	182 43	55 00	39 04	39 17	169 35	117 91	17 00
H. & L. No. 7	8,303 88	89 24	139 35	56 76	32 06	145 37	139 70	104 08	49 00
Chemical No. 1	3,232 16	61 76	129 29	58 88	12 63	4 39	91 52	62 32	11 00
Chemical No. 2	3,228 43	69 99	146 18	36 00	10 54	69 08	66 92	51 66	6 00
Protective No. 1	2,198 63	158 14	234 81	89 90	26 62	8 38	188 25	124 63	9 00
Chief and Assistants	7,374 81	195 45	336 35	129 05	12 03	149 73	69 10	106 62	8 00
Board Fire Comm'rs	3,995 62	.....	.....	.....	.....	.....	.....	.....	.....
Painter	1,080 62	.....	.....	.....	.....	.....	.....	.....	.....
Fire Alarm	6,217 68	66 69	120 05	38 67	5 72	.....	.....	.....	5 00
Central Office	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous	.....	.....	.....	.....	9 00	213 73	.....	.....	144 50
Totals	266,115 19	3,215 74	5,745 79	1,593 53	934 68	2,418 75	4,254 61	3,149 16	1,008 00

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BY COMPANIES.

Hose Apparatus and Equipments.	Printing and Stationery	Harness Supplies and Repairs.	Extra Horses.	Horses.	Ice.	Water.	Bedding and Toweling.	Furniture and Repairs.	Disabled Firemen.	Rent.	Miscellan'ous Expenses.	TOTAL.
$282 50	$1 00	$10 25	.....	.....	$7 60	$25 00	.....	.....	$474 82	.....	$94 33	$9,779 55
.....	1 00	3 75	$56 00	$200 00	7 60	40 00	.....	$19 50	15 00	.....	82 69	13,320 57
.....	1 00	1 00	.....	.....	8 05	30 00	$60 30	.....	.....	.....	29 16	8,874 81
15 90	1 00	3 40	56 00	200 00	9 15	25 00	.....	1 00	.....	.....	106 16	13,374 24
15 00	1 00	7 70	63 01	310 00	8 10	35 00	52 10	18 60	.....	.....	82 38	11,111 63
7 50	1 00	2 85	.....	.....	7 60	25 00	32 75	.....	497 00	.....	69 06	7,004 93
.....	1 00	4 85	.....	.....	8 05	15 00	.....	8 00	94 13	.....	81 99	9,252 05
.....	1 00	4 00	59 06	150 00	9 15	40 00	10 05	.....	.....	$25 00	81 56	12,343 25
44 00	1 00	3 15	.....	.....	9 15	20 00	56 00	3 40	.....	.....	49 82	9,378 04
....	1 00	3 50	59 35	.....	8 05	30 00	.....	1 50	.....	.....	48 07	9,620 82
7 50	1 00	1 85	.....	.....	8 05	30 00	.....	.....	40 21	.....	56 37	8,982 99
5 00	1 00	8 46	59 50	435 00	7 60	15 60	59 25	.....	.....	.....	75 05	11,268 83
.....	1 00	70	.....	.....	8 05	25 00	54 50	1 28	13 88	.....	60 94	9,274 28
.....	1 00	6 60	58 92	375 00	7 60	30 00	72 25	16 50	85 72	.....	81 40	11,395 49
.....	1 00	95	.....	130 00	7 60	30 00	6 70	.....	24 63	.....	62 84	9,193 23
.....	1 00	2 25	57 74	.....	.....	35 00	.....	18 58	.....	.....	72 54	9,762 19
.....	1 00	.....	.....	.....	8 10	30 00	.....	.....	.....	.....	59 37	9,322 87
.....	1 00	3 35	14 58	200 00	9 15	50 00	.....	2 55	.....	.....	56 74	8,558 11
74 00	1 00	60	.....	.....	7 60	40 00	13 00	41 25	.....	.....	87 21	4,612 30
1,096 00	1 00	.....	61 98	.....	.....	35 00	39 00	94 51	.....	.....	86 91	6,961 03
.....	1 00	10 80	52 50	150 00	7 60	25 00	.....	.....	.....	.....	143 67	13,514 34
150 00	1 00	.....	.....	350 00	9 15	25 00	.....	12 61	.....	25 00	60 90	10,484 50
30 00	1 00	.....	63 60	.....	7 60	15 00	53 00	.....	.....	.....	48 89	10,175 74
270 00	1 00	.....	69 27	.....	7 60	50 00	.....	18 00	.....	.....	59 44	10,258 12
99 00	1 00	30 45	59 65	.....	8 05	40 00	.....	.....	.....	.....	44 10	10,101 90
.....	1 00	15 45	.....	200 00	9 15	20 00	.....	.....	39 81	.....	70 20	11,741 12
.....	1 00	5 45	62 99	400 00	8 10	35 00	.....	71	.....	.....	64 51	9,637 20
.....	.....	4 00	.....	400 00	.....	15 00	.....	.....	.....	.....	38 66	4,116 61
24 00	.....	20 17	.....	.....	.....	25 00	.....	.....	.....	.....	27 26	3,781 23
.....	1 00	14 90	.....	.....	8 05	35 00	.....	20 63	.....	.....	82 14	3,190 08
.....	3 75	27 10	.....	.....	7 60	.....	.....	71 85	.....	.....	20 68	8,512 12
.....	51 56	.....	.....	.....	.....	.....	.....	.....	.....	.....	9 25	4,056 43
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	430 77	1,511 39
.....	21 42	.....	.....	.....	.....	.....	45 00	115 85	.....	.....	6,889 71	13,525 79
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24,558 19	24,558 19
5,192 59	540 64	105 27	.....	.....	.....	24,377 71	318 30	56 39	.....	5 00	588 38	31,553 51
7,312 99	645 37	302 80	853 55	3,500 00	219 15	25,267 71	872 20	524 72	1,285 20	55 00	34,556 34	$364,129 48

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PROVIDENCE PERMANENT FIREMEN'S RELIEF ASSOCIATION.

OFFICERS FOR THE YEAR 1898–9.

GEORGE A. STEERE, *President.*
GEORGE F. BATTEY, *Vice-President.*
WILLIAM H. JOHNSON, *Secretary.*
HOLDEN O. HILL, *Treasurer.*

RESOURCE COMMITTEE,

John W. Booth, *Chairman.*

James Dowling, Edward S. Doherty, David G. Knott,
James E. Hall, Edward F. Curtis, Arthur D. Sayward.

FINANCE COMMITTEE,

George F. Battey, *Chairman.*

William F. Maines, David G. Knott.

RELIEF COMMITTEE,

Charles A. Cook, *Chairman.*

John W. MacKenzie, Frank M. Tillinghast.

BURIAL LOT COMMITTEE,

John H. Hall, *Chairman.*

Robert P. Patterson, Clarence C. Thomas.

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TREASURER'S REPORT.

Receipts.

Amount of fund April 1, 1897		$20,955 81
Dues from members	$1,627 00	
Assessments for death benefits	2,160 00	
Interest on investments	950 41	
Donation	10 00	
Balance proceeds eighth annual ball	19 00	
From sale of fire alarm books	40 51	
Net proceeds ninth annual ball	2,748 45	
		7,555 37
		$28,511 18

Expenditures.

Benefits, sick and injured members	$1,815 04	
Death benefits	4,410 27	
Stationery	1 85	
		$6,227 16
Amount of fund April 1, 1898		$22,284 02

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ANNUAL REPORT

OF THE

INSPECTOR OF PLUMBING,

OF THE

CITY OF PROVIDENCE,

FOR THE YEAR 1897.

[Presented February 7, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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ORGANIZATION

OF THE

INSPECTOR OF PLUMBING DEPARTMENT.

INSPECTOR,

REUBEN S. BEMIS.

ASSISTANT INSPECTORS,

HORACE B. HOLLAND, WILLIAM H. CAMFIELD.

CLERK OF DEPARTMENT,

FRED E. DAVIS.

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REPORT.

OFFICE OF THE INSPECTOR OF PLUMBING,
CITY HALL, PROVIDENCE, R. I., Jan. 1, 1898.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

GENTLEMEN: The undersigned herewith presents his annual report for the year ending December 31, 1897.

The ordinances governing the drainage and plumbing of buildings were enforced in their entirety for the first time during the year just closed, and a pleasing feature of the work is the small amount of friction between the men who handle the drains in the cellar bottom and those who do the plumbing in the building. For lack of assistance the ordinance governing the drainage of buildings was not enforced until about the middle of 1896, at which time your honorable body provided an additional assistant to enable the department to take care of this extra work, and immediately rules governing this branch were issued. The results after a full year's experience are very gratifying. The drainlayers have been found willing to comply with the provisions of the law, and the dangers from leaky drains will be reduced. This is one very important feature. To fix the plumbing of a dwelling, or a building of any kind so that it will stand the usual test, and leave the drain, which carries off the wastes from the building to the sewer, in a poor and leaky condition, is a grave error, and liable to do harm. In dwellings the drain is usually found under the cellar bottom, and defective work would permit foul matter to ooze out, and contaminate the ground about. Even if nothing worse should result, the air is sure to become permeated with foul odors, and disease is

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apt to follow. In the plumbing department the work continues to improve, as it has annually ever since the law was put in operation. The amount of defective work has been still further reduced until to within fifteen per cent. of the actual number of jobs which came under the supervision of the department.

When it is considered that during the first ten months the plumbing law was put in operation, out of 1,751 jobs which passed through the department, nearly one-half of the work done was defective. In 1895 the defective work was reduced from 44 per cent. to 24 per cent., and 1896 showed a still further decrease, 17 per cent. being the figure. Last year only 15 per cent. of defective work was found, which speaks well for the standard of work now being done.

When the ordinance requiring a test on drains was put in operation, a rule was established that no connection of soil or waste pipes with a drain should be allowed until a certificate had been issued showing that such drain had passed the test required. The lower end of all soil and waste pipes was required to be inserted into the drain at cellar bottom, the connecting joint made and the water test then applied to the upright work.

Whenever the water closets are located in basements the lead bend or other fittings receiving the closet should be in place at the time the drain receives the water test, so that the inspector is sure that all the work under the cellar bottom may be known to conform with the law. When the main drain trap is located within the walls of a building a fresh air inlet pipe leading to the outer air was required in all cases. When water closets are added to the plumbing of an old building which has sinks and other fixtures in use, such fixtures should be so trapped as to resist syphonage, and in case of wooden spouts receiving wastes from sinks and other fixtures, water closets cannot be added unless the waste pipes are reconstructed, or the wooden spouts cut off from the main drain by separate traps.

The only additional requirement issued during the year

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was one for plumbers providing that whenever a water closet which is not back-aired becomes worn out, it may be replaced with a water closet of the syphon-jet pattern, or a pattern of water closet having water seal of a depth equal to a syphon-jet closet (ordinary washout or short hopper closets debarred), without back-air pipe, providing that in all cases the soil pipe extends full size through the roof. The whole work to be performed to the satisfaction of the Inspector of Plumbing.

WORK OF THE DEPARTMENT.

Little difficulty has been experienced in enforcing the laws during the year, and in only four instances has it been necessary to prosecute for violation. Of the 3,565 plumbing and drainage jobs inspected, 537 were found defective. This is about 15 per cent. This is a large increase in the number of jobs performed over the preceding year. In 1896, 2,201 jobs were inspected for plumbing, and 318 for drainage, and the total amount of defective work was 423 jobs, or 17 per cent.

The total number of plans filed for plumbing and drainage during the year covered by the report was 3,883, 2,785 being for plumbing and 1,138 for drains. Of this number 561 was for work in new houses, and 2,184 for work in old houses. In 2,425 instances connection was made with the public sewers, and 320 instances connections were made with cess-pools. The value of the work performed, as estimated, was $368,086.52.

A comparison of the work performed during the year with the amount of work which came under the notice of the department during the first year the plumbing law was enforced, shows an increase in work of nearly 60 per cent.

The number of inspections required on these jobs was 6,656 on plumbing, and 1,442 on drains, making a total of 8,283 inspections, including the examinations of other kinds, 185. There have been a number of instances where complaints of violation have been made, and an investigation by

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the department has shown that the complaints were well founded. But with four exceptions these cases have been satisfactorily settled by the parties rectifying the defects, and putting the work in the condition required under the law.

The work of the department involved 2,457 more inspections than were made last year.

Whenever complaint of irregularities have been made to the Superintendent of Health in regard to defective work in houses, the department has always been willing to make a systematic examination, and apply the usual test.

PROSECUTIONS.

There have only been four cases of violation during the year, and in each of these fines were imposed.

The cases are: Reuben R. Baker, Chief of Police, *vs.* Jacob Radiess. Police Court, January 23, 1897. Violation of revised ordinances of 1895. Building, 272 Chalkstone Avenue. No plan of plumbing filed and work not inspected. Fine, $10.00 and cost upon each complaint. Plead guilty.

Reuben R. Baker, Chief of Police, *vs.* David Meyers. Police Court, February 6, 1897. Violation of revised ordinances of 1895. Buildings, No. 107 Charles Street, and No. 351 North Main Street. No plan of plumbing filed, and work not inspected. Fined $15.00 and cost upon two complaints, and $10 00 and cost upon two complaints. Plead guilty.

Reuben R. Baker, Chief of Police, *vs.* Charles F. Wright. Police Court, February 19, 1897. Violation of revised ordinances of 1895. Building, No. 172 Pleasant Street. No plan of plumbing filed and work not inspected. Plead not guilty, and held under bonds. February 23d, Charles F. Wright was to have appeared in the Police Court to-day and answered to two charges. When the cases were called Mr. Wright did not answer, and the bail was ordered defaulted. March 5th, Mr. Wright appeared in the Police Court to-day, and on the heretofore mentioned charges he plead guilty, and was fined $5.00 and cost on each complaint.

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Reuben R. Baker, Chief of Police, *vs.* Chong Kee. Police Court, July 15, 1897. Violation of revised ordinances of 1895. Building, No. 256 South Main Street. No plan of plumbing filed, and work not inspected. Fined $3.00 and cost on each complaint. Plead guilty.

In accordance with the regular custom, the following Circular was sent out December 1, 1897:

TO THE LICENSED PLUMBERS OF THE CITY OF PROVIDENCE:

Notice is hereby given that the following list of defective work must be corrected before January 1, 1898, or the same will be reported to the Commissioner of Public Works as violations of the Plumbing Law, and until the same are corrected no recommendation for a license for the year 1898 will be signed by the Inspector of Plumbing.

See sections 27 and 28 of the plumbing ordinance.

Yours respectfully,

REUBEN S. BEMIS,
Inspector of Plumbing.

There were several instances of defective jobs which had not been fixed up up to this time, but with the exception of three cases the provisions of the law were complied with, and licenses were granted by the Commissioner of Public Works.

LICENSED PLUMBERS.

During the year the Commissioner of Public Works has granted licenses to 119 plumbers and to 53 drain layers. The plumbers and drain layers are required to furnish bonds every year in the sum of $3,000.00.

SUMMARY OF WORK.

Number of plumbing inspections,	6,656
Number of drain inspections	1,442
Number of other inspections, examinations, etc.	185
Total	8,283
Number of plumbing plans filed	2,745
Number of drain plans filed	1,138
Total	3,883

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Number of plumbing plans for work in new houses	561
Number of plumbing plans for work in old houses	2,184
Number of plumbing plans with sewer connections	2,425
Number of plumbing plans with cesspool connections	320
Valuation of plumbing plans filed	$368,086 52
The average daily inspections during the year were	27
The average number of plans filed daily were	13

Appropriations for the department for the fiscal year is $5,400. Salary of inspector, $1,500; clerk, $15 per week; two assistant inspectors, $21 per week.

In past reports attention has been called to the sanitary condition in some of the public school buildings, and also to the outdoor privy vault. In regard to the former the City Council changed the dry closet system in many buildings, replacing it with the automatic flushout closet, which is a great improvement. There are still a number of buildings in which this dry closet system is in use, and in my opinion ought to be replaced as soon as possible.

While the Board of Aldermen, acting as a Board of Health, have for the past two or three years issued many orders to property owners to connect their estates with the sewers, the Superintendent of Health has until recently met with more or less opposition in enforcing these orders. The objection comes principally from people whose property in general construction is such that the adaptation of the modern conveniences which comprise a requisite part of the modern house of to-day, is found to be more or less of a difficult problem, and considerable tearing down is necessary. One objection to the removal of the out-house in the yard and the destruction of the vault, made by these people, is that without heat, the closets installed in the basement of a house — and in most of the old dwellings this is the only place convenient — are frozen up when the temperature falls to the low points so often experienced.

There are in the city to-day a large number of estates that are drained into vaults and cesspools, notwithstanding the fact that the public sewer runs close past the door. The question of the right of the city authorities to issue such an

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order and compel its execution was raised, but that has been settled by the Supreme Court, so that the Superintendent of Health can proceed unhampered in this respect. During 1897 over 1,000 orders were issued by the Board, but only about one-fifth of these were complied with, and, as before stated, the lack of room in the house and the difficulty experienced with freezing up in severe weather has without doubt been a factor in this delay.

These objections, however, can be overcome readily by the use of a proper frost-proof closet. The frost proof closet may be installed in the yard, and connected direct with the sewer. I have in the past recommended the introduction of closets of the "anti-freezing" pattern be located in buildings in the yard outside of the house proper. This style of closet has the merit of cheapness and efficiency, they are water supplied, work automatically, and will not freeze if properly set.

The enforcement of the law, during the past year, requiring water test on house drains, has been very satisfactory to this department. The requirements in this city in this respect are the same as in many other municipalities. With the connection at the sewer the plumbing department has nothing whatever to do, the test being confined to within three feet outside of the walls of a building, and to the location of the trap. The danger to be apprehended from house connections improperly made, is the possibility of gas or foul air from the sewer finding its way into the interior of the dwellings.

It is one of the essential requisites that the drain shall be tight, that the soil may not be polluted and made a possible source of danger. It is also very desirable that the drain should be properly ventilated, but there is a wide difference of opinion as to the best means of accomplishing this. It is conceded on all sides that the objectionable gases evolved from the wastes that are turned into the public sewers must be kept out of the dwellings. The ventilation of the sewer

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has been considered by eminent authorities, both in this country and on the continent, and various methods of artificial ventilation have been tried, in most cases with indifferent success. Some believe that the house drain, could and should be made to serve this purpose, by removing the main drain trap, which cuts off the dwelling or building from the sewer. But the public sewers and house drains, while forming a part of one general system, should be maintained separate and distinct. The one is in the hands of municipal authorities, whose engineers are constantly at work on this subject with a view to bringing about the best possible conditions. The other is in the hands of the plumbing department and the sanitary plumber, which are equally interested in obtaining the best results. Combine the two and make a sewer ventilator out of the house drain, and you immediately invite a collision of authority, and at the same time bring about conditions that would be a menace to the health of the citizens.

This, it is claimed, is already what is being done by the introduction of an intercepting trap in the house drain, by forcing the sewer air into the atmosphere in the streets at intervals, through the perforated cover of manholes. If this is a possible danger, how much more so will it be if the sewer gas is allowed to go through the house drain and into the soil pipe, and find its way in more concentrated form through the defective joints in the plumbing into the lighter air of the house. In one case the moment it escapes it immediately becomes so diluted that it is practically harmless, but the result would be far different if the gas should find its way into a small room. An open gas cock in the street through which illuminating gas was escaping might cause inconvenience to people passing in that vicinity, but not fatal results Open the same in a closed room and it would be fatal to the occupants. Sewer gas escaping into the streets and combining with large quantities of atmospheric air, is less injurious than when allowed to escape into the more limited atmosphere of the dwelling. The organic poisons can be so diluted as to completely palliate their destructive

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effects, while still retaining all their poisonous properties when again concentrated. It may be said that the chances of danger by the removal of the intercepting trap would be very small. But why take any chances? Why not leave the ventilation of the sewers entirely in the hands of the municipal engineer? In a well managed system of sewerage there is very little complaint of foul odors emitted through the perforated cap of the manhole, and it is not expected that a person is going to lie down directly over the cover for the enjoyment of the "perfumes" that come up. Of course conditions vary. In the sewer built of rough material where the flow is sluggish and where little or no attention is paid to cleansing and flushing, the manhole in the street might be a great source of inconvenience and possible danger, but with the modern sewer, which at frequent intervals is thoroughly flushed, such conditions would not obtain.

There is in my opinion no excuse for making the soil pipe of a house the ventilator for the sewer. The main drain trap is one of the requirements in the City of Providence. The drainage law provides that every drain shall be trapped with a running trap of the same size and material as the drain, and if within a building such trap shall be provided with a hand-hole for convenience in cleaning. No connection shall be made with the drain on the street side of said trap. There shall be a fresh air inlet-pipe entering the drain on the house side of and close to said trap, of a diameter of not less than four inches, leading to the outer air and opening at any convenient place satisfactory to said inspector.

This in my opinion is the best and safest method that can be adopted, all local conditions considered. The objections raised to this method are that the trap becomes a miniature cesspool, and that the fresh air inlet-pipe is sometimes transformed into an outlet through which noisome odors escape to the detriment and inconvenience of pedestrians. Assuming that this is so — a condition which is practically impossible if the conditions in the building are as they should be — is it not better to have the sewer gases turned loose where there

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is an abundance of atmospheric air, rather than provide a possible chance for it to escape into the rooms of the household? In my experience I have never known a fresh air inlet-pipe to become a "stink outlet," where the soil pipe has been carried up through the roof full size. Another objection to the drain is that it becomes clogged with solid matter, but such occurrences are very rare, and little trouble is occasioned by frost, and that can be overcome by placing the outlet pipe a short distance nearer the building, away from the trap.

Conditions might be brought about where the main drain trap could be removed without any danger, but the trouble and expense would be such that few communities would care to try the experiment. One of these requirements would be a careful and systematic inspection of the plumbing system in every house and building, by a competent person, who should see to it that all defects are remedied. The house to house inspection plan has been adopted by some municipalities, but whether the conditions attained are such that would warrant the turning loose of the foul air from the sewer through the pipes in the house without danger of escape into the room is still an open question. Even in a perfectly plumbed house there can be no guarantee that the perfect condition could be maintained, and in case of the soil pipe being made a ventilator for the sewer the one chance of danger comes in. The settling of a building, expansion and contraction due to varied temperatures, would cause the joints to open to an extent perhaps not noticeable to the inexperienced eye from the stand-point of danger, but sufficient to allow the noxious gases of the sewer to find an outlet. On this point an eminent authority states: "I do not like to recommend the indiscriminate use of the soil pipes of a building for this purpose, by leaving out the main trap in front of the building. Unless the soil pipes and the entire plumbing of a house can be so controlled by responsible parties that their construction and maintenance is first class,

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there may be danger from the air coming from the public sewers and entering the rooms through imperfect fixtures."

With the intercepting trap the sewer is effectually cut off and the introduction of the fresh air inlet-pipe forms a satisfactory means of ventilating the house drain. By this means the gases evolved from the slimy coating of the drain and soil pipe are diluted, and whatever danger might exist is reduced. One of the great safeguards against the evil effects of sewer gas is dilution. If the gas is allowed to combine with sufficient pure air, it is harmless. Even if conveying the disease germ the danger is reduced to a minimum. The drainage and plumbing of buildings form a system in themselves, and should not be made a part of the sewer system by opening up the drain and making the soil pipe a breathing place for the sewer. Sewers must have breathing places, but the fact that the problem of ventilating them is more or less difficult of solution, does not warrant the endangering of the health of the household by turning the noxious gases into the pipe system in the house from which it is liable to escape into the rooms. Is it not much better to leave the ventilation of the sewer in the hands of the municipal engineer, and let the sanitary plumber take care of the system in the houses, and see to it that the gases evolved on the house side of the intercepting trap are carried off properly and effectually?

In conclusion, I desire to thank the members of the City Council for the support accorded me in the enforcement of the ordinances during the past year.

Respectfully submitted,

REUBEN S. BEMIS,

Inspector of Plumbing.

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Summary by Months, 1894.

Months.	Inspections.	Other Examinations.	Plans Filed.	Old Houses.	New Houses.	Sewer Connections.	Cesspool Connections.	Estimated Cost.
March	87	10	111	103	8	98	13	$19,986 75
April	144	7	182	162	20	164	18	21,539 00
May	409	11	249	177	72	209	40	48,193 50
June	424	4	193	138	55	164	29	28,928 00
July	436	2	173	104	69	146	27	32,656 25
August	492	2	209	159	50	180	29	30,705 50
September	491	6	175	131	44	165	10	26,214 50
October	503	15	188	150	38	165	23	30,013 00
November	481	8	140	104	36	102	38	16,969 00
December	475	16	131	92	39	112	19	17,701 50
Totals	3,942	81	1,751	1,320	431	1,505	246	$273,887 00

Summary by Months, 1895

Months.	Inspections.	Other Examinations.	Plans Filed.	Old Houses.	New Houses.	Sewer Connections.	Cesspool Connections.	Estimated Cost.
January	334	9	128	74	49	100	28	$30,014 00
February	197	10	78	54	24	63	15	13,678 50
March	270	9	120	92	28	102	18	16,795 81
April	381	6	206	154	52	169	37	27,741 00
May	442	7	259	204	55	230	29	36,575 00
June	437	2	175	132	43	156	19	28,747 50
July	405	2	200	137	63	169	31	34,501 25
August	428	2	191	138	53	165	26	35,907 00
September	439	12	195	134	61	159	36	34,035 50
October	524	7	217	174	43	188	29	33,060 00
November	458	5	156	105	51	125	31	26,729 00
December	409	7	129	99	30	117	12	20,944 00
Totals	4,724	78	2,049	1,497	552	1,743	306	$337,668 56

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Summary by Months, 1896.

Months.	Inspections.	Other Examinations.	Plans Filed.	Old Houses.	New Houses.	Sewer Connections.	Cesspool Connections.	Estimated Cost.
January	298	7	133	86	47	116	17	$21,942 50
February	238	3	118	79	39	100	18	14,350 45
March	338	5	148	112	36	120	28	23,394 49
April	370	9	202	138	64	167	35	33,329 00
May	399	9	215	150	65	190	25	35,906 00
June	549	20	192	130	62	155	37	54,034 00
July	408	53	203	145	58	171	32	54,368 00
August	491	107	227	173	54	194	33	37,196 00
September	539	99	229	171	58	192	37	31,066 00
October	544	106	220	182	38	201	19	29,500 00
November	444	97	168	131	37	146	22	59,880 00
December	623	70	146	115	31	130	16	20,993 50
Totals	5,241	585	2,201	1,612	589	1,882	319	$415,479 94

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Summary by Months, 1897.

Months.	Plumbing Inspections.	Drain Inspections.	Other Examinations.	Plumbing Plans Filed.	Drain Plans Filed.	Old Houses.	New Houses.	Sewer Connections.	Cesspool Connections.	Estimated Cost.	Average Number of Inspections Per Day.	Average Number of Plans Filed Per Day.
January	306	44	22	114	27	90	24	97	17	$13,568 50	14	5
February	259	23	22	117	16	92	25	98	19	12,724 00	13	6
March	375	58	12	169	48	142	27	147	22	28,148 00	16	8
April	485	118	.....	281	93	227	54	251	30	30,606 00	24	15
May	536	142	6	249	107	198	51	221	28	34,845 50	29	15
June	582	149	16	269	117	191	78	233	56	35,000 50	29	15
July	495	133	14	214	111	161	53	187	27	32,639 50	25	12
August	525	137	8	290	115	231	59	263	27	57,603 43	26	15
September	704	163	19	296	144	248	48	261	35	40,806 89	35	18
October	762	200	18	336	157	278	58	308	28	30,058 20	38	19
November	828	151	23	219	104	174	45	197	22	25,616 00	40	13
December	799	124	25	191	99	152	39	162	29	21,170 00	36	11
Totals	6,656	1,442	185	2,745	1,138	2,184	561	2,425	320	$368,086 52	27	13

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ANNUAL REPORT

OF THE

OVERSEER OF THE POOR

FOR THE YEAR

1897.

[Presented February 7, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

OFFICE OF THE OVERSEER OF THE POOR,
PROVIDENCE, Feb. 7, 1898.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

GENTLEMEN: The undersigned, the Overseer of the Poor, presents this, his eighth annual report, to your honorable body.

This report will give in detail the number of persons assisted, together with their nationality, and the total expenditures of the department for the year ending December 31, 1897.

The work of the department increased during the year, as 1,838 more people were assisted than in 1896, and from present demands I have reason to believe there will be a still larger number assisted during 1898. The business depression, which was first felt in the fall of 1893, is still with us, and Providence, with its diversified industries, all of which were more or less affected, has felt the result of the hard times, just as severely as any of our New England cities. The work of distributing out-door relief during such a crisis is a very difficult task to perform without lowering the social condition of the applicants, and thereby doing more harm than good. There are very many who take advantage of city aid, thinking that by just applying relief will be given. They find this is not done, however, till the applications are thoroughly looked into, but this increase in applicants makes, in proportion, more work in the line of investigation.

The following table shows the number of new cases investigated and assisted each month, and also the number of old cases reinvestigated and assisted:

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1897.		1897.	
NEW CASES INVESTIGATED.		OLD CASES REINVESTIGATED.	
January	92	January	87
February	65	February	74
March	51	March	39
April	30	April	23
May	23	May	18
June	21	June	19
July	25	July	17
August	20	August	21
September	31	September	26
October	50	October	32
November	63	November	29
December	159	December	141
Total	630	Total	526

The above table shows only new cases taken on, and old cases that were assisted at some time during the past ten years. There were many other cases assisted that were carried over from 1896, some of which are being assisted at the present time, such as widows with several small children to provide for, and mothers with husbands in the insane asylum, or serving time in jail. It is very noticeable how people once assisted return to be registered for very little cause. Many of them are very needy when application is made the second time, it is true, but there are also a number that return for city aid who by a little effort on their part, could pull through the tight places they are temporarily placed in but for the knowledge that they had once been the recipients of consideration from this department. This is one of the principal reasons why a thorough research should be made before applicants are received for the first time on the relief roll, for once on the roll they are more than likely to return for very little cause. There is a class who will

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never do well, and who are known as regular pensioners on the department, and will continue just so long as relief is given. In most every one of these cases there are dependent little ones, and for their protection the worthless parents receive doles which would otherwise be refused. It is these innocent children that make the rendering of out-door relief a most complicated work.

The following table will show the number assisted each month from 1893 to 1897 inclusive:

MONTHS.	1893.	1894.	1895.	1896.	1897.
January	944	5,187	2,266	1,595	2,478
February	1,393	7,130	2,032	1,724	2,693
March	1,303	7,220	2,414	1,876	2,539
April	813	3,144	1,888	1,163	1,291
May	798	2,393	977	744	897
June	633	1,887	894	804	795
July	626	1,690	772	811	759
August	634	1,679	698	753	865
September	1,179	1,601	679	885	834
October	1,741	1,626	794	1,429	1,015
November	2,073	1,703	751	1,665	1,388
December	5,187	2,266	1,946	2,707	2,522

There was more demand on the department during the first five months of 1897 than in 1896, but commencing with June, and continuing during the remainder of the year, the applicants decreased.

EXPENDITURES.

The total expenditures for the year 1897 were	$24,031 43
Total receipts	5,798 89
Net expenses	$18,232 54

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The net expenditures of $18,232.54 were expended for the following purposes:

Outdoor relief	$7,015 06
Transportation	357 93
Burials	912 86
Medical attendance	640 00
Rhode Island Hospital	338 00
Charity Building and Wood Yard	6,210 38
Miscellaneous and lodging	825 63
Cash	432 66
Salary	1,400 00
	$18,232 54

There was expended $1,064.79 more in 1897 than during the previous year. This increase was caused by the excess in the number assisted over 1896.

Appended are the expenditures for the past four years:

YEARS.	1894.	1895.	1896.	1897.
Total	$25,555 01	$16,701,15	$17,167 75	$18,232 54
Outdoor relief	15,001 57	6.596 33	6,010 08	7,015 06
Transportation	763 05	449 07	457 91	357 93
Burials	1,025 00	1,021 00	1,241 00	912 86
Medical attendance	600 00	600 00	600 00	640 00
Rhode Island Hospital	1,060 00	441 50	350 00	338 00
Charity Building and Wood Yard	4,868 03	5,533 27	6,433 38	6,210 38
Miscellaneous and lodging	245 26	103 33	252 80	825 63
Salary	1,400 00	1,400 00	1,400 00	1,400 00
Cash	592 10	556 65	422 60	432 66

NUMBER ASSISTED.

The number assisted during the year was 8,310, of which 5,443 were Americans, and 2,867 were foreigners.

The following number of persons were assisted during the past eleven years:

1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.
2,396.	2,107.	2,348.	2,904.	2,558.	2,807	5,064	12,112	6,389	6,472	8,310.

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The following table shows the amount expended by this department each month during the year 1897:

Expenditures in Detail for Outdoor Relief for Year 1897.

Months.	Groceries.	Coal.	Hospital.	Transportation.	Cash.	Burials.	Shoes.	Physicians.	Miscellaneous and Lodging.	Total.
January..	$643 13	$348 18	$19 00	$40 90	$26 70	$87 00	.....	.....	$155 80	$1,320 71
February.	756 99	342 68	111 00	2 26	29 75	123 00	.....	....	155 85	1,523 53
March ..	623 00	188 44	26 00	37 21	36 00	46 00	.....	$150 00	170 73	1,277 38
April.....	497 50	30 19	33 00	21 03	57 80	85 86	.....	.....	83 85	808 23
May.....	417 80	5 75	31 00	12 00	31 08	80 00	.....	.....	.....	577 63
June.....	333 00	.....	11 00	52 38	33 50	20 00	.....	150 00	9 25	609 13
July.....	326 00	.....	14 00	17 94	34 25	109 00	.....	.....	74 00	575 19
August...	343 00	.....	8 00	65 71	40 00	63 00	.....	.....	1 45	521 16
Septemb'r	333 00	.....	14 00	34 36	21 85	95 00	.....	175 00	.....	673 21
October..	313 50	2 75	28 00	25 85	56 00	80 00	$92 25	.....	3 05	601 40
Novemb'r	391 02	19 25	31 00	10 25	36 25	63 00	.....	.....	31 20	581 97
December	440 00	129 63	12 00	38 04	29 50	61 00	436 00	165 00	141 45	1,452 62
Total...	$5,419 94	$1,066 87	$338 00	$357 93	$432 68	$912 86	$528 25	$640 00	$825 63	$10,522 16

There were made during the year 3,346 house visits to the homes of the poor by your overseer.

CHARITY BUILDING.

A temporary place of rest was furnished to 169 women and 102 children, some remaining a day, and others longer, as the exigencies of the cases warranted.

A table showing the number of meals furnished at the building to men, women, and children, also their nationality, and the total expense of same:

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Charity Building.

Months.	Number of Meals to Tramps.	Number of Meals to Women.	Number of Meals to Children.	Total Number of Meals.	Total Expenditures.	Number of Americans.	Number of Foreigners.	Total Number of Persons.
January	1,037	519	6	1,562	$673 45	471	124	595
February	1,046	501	211	1,758	481 48	404	210	614
March	1,265	448	266	1,979	506 13	593	313	906
April	345	319	139	803	393 02	129	52	181
May	170	358	207	735	341 92	32	27	59
June	224	270	136	630	289 05	83	48	131
July	144	360	78	582	287 88	23	51	74
August	198	413	301	912	415 18	94	101	195
September	211	277	82	570	317 27	88	35	123
October	323	389	191	903	292 57	92	94	186
November	281	189	42	512	350 32	186	95	281
December	933	341	158	1,432	408 98	415	211	626
Total	6,177	4,384	1,817	12,378	$4,757 25	2,616	1,361	3,971

CITY LAUNDRY.

In past reports I recommended the establishing of a laundry as a work test for women applicants, and also as a means of giving a larger weekly allowance to women with many small children to provide for. During the early part of this year, to show the importance of such a work, the Women's City Missionary Society started a laundry on Cranston street as an auxiliary to their relief work, and from the many encouraging reports received I am satisfied the work of the society will be diminished by judicious discrimination between worthy and unworthy applicants. The same saving would be to this department only in a much greater proportion if a laundry was started. At present we are without any weapon of defence in the line of a work test for women,

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and many assaults are made in the course of a year, which, with such a test, might be avoided. The responsibility would then devolve rather on the applicant than on the judgment of your Overseer. There is sufficient work to keep a good sized hand laundry in operation in the many branches of the city government, such as the City Hall, Fire, and Police Departments. From all of these different departments the washing is now sent out and done under contract. In the erection of the Poor Department quarters, provision was made for the establishment of such a laundry, and I would recommend the early consideration of fitting up the different rooms with apparatus necessary for the starting of such a project.

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Registry of Meals from 1878 to 1897, inclusive, Also of the Number of Women and Children.

Years.	Number of Women.	Number of Children.	Total.	Total Number of Meals.
1878, eight months.....	1,137	28	1,165	1,329
1879.....	198	25	223	1,167
1880.....	134	33	167	1,482
1881.....	123	39	162	3,070
1882.....	157	51	208	2,600
1883.....	161	57	218	1,917
1884.....	177	58	235	2,956
1885.....	163	60	223	2,062
1886.....	138	24	162	2,475
1887.....	119	54	173	2,563
1888.....	143	89	232	2,378
1889.....	157	76	233	2,746
1890.....	128	65	193	1,996
1891.....	223	100	323	1,489
1892.....	167	52	219	906
1893.....	143	45	188	2,114
1894.....	131	61	192	3,751
1895.....	150	54	204	4,359
1896.....	172	42	214	5,717
1897.....	169	102	271	6,201
Total.....	4,090	1,115	5,205	53,268

The above table only shows the number of meals furnished women and children. The number of meals given to men were 61,772, which makes the total number of meals furnished since the building was established, 115,040.

CHARITY WOOD YARD.

The building which was destroyed by fire on April 21, 1896, was partially rebuilt during the year through labor fur-

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nished by applicants for relief. The sheds for the protection of wood during stormy weather are not what they should be if the yard is to remain in its present location any length of time. They were merely put up for temporary use, and some steps should be taken at once to rebuild the yard and therefore furnish our customers with clean and dry wood, or find a more suitable location. The present situation is objectionable on account of its close proximity to the new State House.

During the year 51 men worked for shoes, 111 for coal, 1,000 for groceries, and 35 for transportation.

A table giving the total expenditures, together with the total receipts, and number of tramps who worked during the year:

Charity Wood Yard.

Months.	Total Expenditures.	Total Receipts.	Net Expenses.	Net Receipts.	Amount Paid for Labor.	Number of Tramps.	Americans.	Foreigners.
January	$744 49	$619 47	$125 02	.....	$393 82	575	460	115
February	838 00	435 08	402 92	.....	310 00	589	393	196
March	824 31	423 25	401 06	.....	306 42	880	579	301
April	564 37	717 00	.....	$152 63	283 33	160	116	44
May	446 94	657 50	.....	210 56	363 99	40	22	18
June	518 49	593 25	.....	74 76	268 08	107	72	35
July	502 08	447 68	54 40	.....	344 58	56	14	42
August	316 94	216 50	100 44	.....	277 67	157	72	85
September	804 96	297 64	507 32	.....	330 25	99	76	23
October	437 69	493 50	.....	55 81	331 33	169	84	85
November	608 33	514 15	94 18	.....	304 16	263	174	89
December	745 42	383 87	361 55	.....	320 49	605	403	202
Total	$7,352 02	$5,798 89	$2,046 89	$493 76	$3 834 12	3,700	2,465	1,235

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TRAMP QUARTERS.

I must once more recommend to your honorable body the necessity of providing a lodging place for the tramps that will be under the control of this department. The present method of lodging these men, is to say the least, very unsatisfactory. It is the means of encouraging a number of undesirable men to come to our city and hang around on the plea of seeking employment. They make no effort to look for work in any of our neighboring towns and cities, but walk right through, with Providence, as it were, their only hope. This work plea is a disguising cloak thrown around many of them, to shield, while they are looking about for easy prey. They are well aware that in the towns and small cities they cannot remain long without having some definite view of work, and so they enforce one of their unwritten laws — to avoid as far as possible the places where their trade is not appreciated. Thus they arrive in many instances as late as 12 o'clock at night in our city. The way in which the tramps are lodged for the past few years is an encouragement to trampism. So long as we disregard the fundamental principles advanced by all experienced persons on housing this class of our paupers, just so long will this army of unproducers increase rather than diminish. It is just as economical to do this work in the right way and give an opportunity to the honest, upright laborer or mechanic forced on the road for the first time through no fault of his, but the scarcity of labor, to get on his feet.

The monthly statistics of the tramps who worked in the wood yard will show that all the men on the road are not confined to the laboring class, but include many mechanics, such as machinists, moulders, bakers, printers, carpenters, etc. These are trying times for the man who has failed to lay by a little during the years of prosperity. To quote the remark of a tramp: "In prosperity little thought is given to poverty," is too true to require comment. What is our city doing to uplift the poor fellow who is compelled to travel

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from place to place in the hope that work will be found? He reaches our municipality, perhaps unclean, and in many cases tainted with vermin, the result of putting up in the cheap places managed by private individuals for profit, and in some instances by cities and towns. What chance to get work is afforded him, no matter how anxious he is for it, or how much in need of a man the corporation he applies to may be? He is told there is no help wanted, and he continues his travels from shop to shop meeting with the same discouraging remark, and finally night finds him in our city, and he applies for a ticket for lodging at the Central Station. Under our system he is sent to what the fraternity terms "a boarding out place" for the night, and comes out in the morning even dirtier than when he when in. He is lined up, with many others, who are in the same condition, and marched through our public streets as a criminal to the wood yard, where he is obliged to work for his lodging and meal, after which he goes his way. Now what, I repeat, has been done to lift this man from the position into which he has been forced? Nothing. On the contrary he is encouraged to continue as a traveling mendicant, and pushed along as a foot-ball to some other place, and eventually becomes a chronic.

How much better would it be to give him an opportunity by providing a clean and well ventilated resting place for the night, with a chance of receiving a long needed bath and the sterilizing and disinfecting of his clothes. If this was done he would start off the next day in search of work presentable to any employer requiring his labor.

The best way to carry the above plan out would be to fit up a wayfarers' lodge in connection with the wood yard.

There is no better location, to my mind, for a wood yard and sleeping quarters than on the newly acquired land on Eddy street. Owing to the crowded condition of the Central Police Station the large dormitory built and furnished for the lodgers will have to be used shortly by the police for cell room. The buildings on Eddy street are well adapted for the purpose mentioned, and as the present location of the

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wood yard is only temporary, I see no reason why a change would not be in order at an early day.

A table showing the occupation of the tramps that worked in the yard during the year :

Months.	Bakers.	Painters.	Jewelers.	Plumbers.	Cigarmakers.	Printers.	Laborers.	Weavers.	Spinners.	Carpenters.	Moulders.	Blacksmiths.	Machinists.	Total.
January	25	20	20	31	22	25	100	90	78	30	14	75	50	575
February	7	15	60	25	14	45	175	15	90	30	40	13	60	589
March	2	33	50	23	43	12	380	83	77	60	25	2	90	880
April	10	0	40	10	12	0	33	20	20	2	4	5	4	160
May	0	0	0	0	0	0	20	3	4	1	5	0	7	40
June	0	0	30	2	4	0	53	8	7	1	1	3	1	107
July	0	10	0	0	0	0	20	0	5	7	3	4	7	56
August	0	5	15	0	3	1	48	70	2	3	0	0	10	157
September	2	1	5	10	5	0	20	7	9	0	10	18	12	99
October	4	..	25	3	2	0	50	30	20	0	10	5	20	169
November	0	5	3	0	0	2	150	33	50	5	6	3	6	263
December	14	15	10	8	2	20	385	45	50	10	12	4	30	605
Total	64	104	258	112	104	105	1,434	404	407	149	130	132	297	3,700

Since the opening of the yard in May, 1878, the registry by years of the number of tramps has been as follows:

1878	1,248
1879	1,143
1880	634
1881	603
1882	1,135
1883	1,205
1884	1.498
1885	1 352
1886	1,886
1887	1,464
1888	1,710
1889 and six days in January, 1890	2,538
1890	1,868

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1891	1,914
1892	1,992
1893	3,892
1894	5,262
1895	3,025
1896	3,448
1897	3,700

An increase of 252.

DEXTER ASYLUM.

The following are the statistics of the Dexter Asylum for the year 1897:

Number of inmates, January 1, 1897			106
Admitted during the year			40
Total			146
Discharged during the year		28	
Died during the year		20	
Total			48
Remaining January 1, 1898			98
Average number of inmates		104	
Whole expense for the support of Asylum and farm			$32,705 99
Received from products and other sources	$21,575 45		
Received from Dexter Donation	11,130 54		
Total			$32,705 99

A table showing by months the number admitted, the number discharged, the number of deaths, and the total number remaining, both males and females:

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Dexter Asylum Record for 1897.

Months.	Admissions.	Discharged.	Deaths.	Remaining.	Males.	Females.	Americans.	Foreigners.
January	3	0	2	107	62	45	59	48
February	5	0	1	111	63	48	63	48
March	2	2	0	111	61	50	63	48
April	4	6	3	106	60	46	61	45
May	5	6	2	103	59	44	59	44
June	2	5	0	100	58	42	55	45
July	3	2	1	100	58	42	54	46
August	3	2	0	101	59	42	54	47
September	3	1	1	102	60	42	52	50
October	5	0	4	103	61	42	52	51
November	2	3	4	98	58	40	49	49
December	3	1	2	98	61	37	50	48
Total	40	28	20					

There were nine more admitted during the year than in 1896, and ten more discharged. There were seven more died than during the previous year.

A table showing the total expenses, total receipts, and draft drawn on Dexter Donation every three months for the years 1896 and 1897:

1896.				1897.			
Months.	Expenditures.	Receipts.	Draft on Donation	Months.	Expenditures.	Receipts.	Draft on Donation.
February	$8,634 57	$4,689 23	$3,945 34	February	$8,184 77	$3,973 64	$4,211 13
May	8,292 28	6,432 23	1,866 05	May	8,299 69	7,073 84	1,225 85
August	7,325 94	5,008 31	2,317 63	August	7,397 67	6,278 78	1,118 89
November	8,510 58	4,347 98	4,162 60	November	8,823 86	4,249 19	4,574 67
Total	$32,769 37	$20,477 75	$12,291 62	Total	$32,705 99	$21,575 45	$11,130 54

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MEDICAL SERVICES.

The report of the physicians will show a decrease in house visits of 117, and in office consultations of 120 during the year.

The report is as follows: First, that they have made 582 house visits, and held 226 office consultations. Second, that of the 351 patients under care and treatment, 170 have recovered, 61 improved, 10 unimproved, 5 sent to Insane Asylum, 18 died, 38 sent to State Almshouse, 10 to Dexter Asylum, 10 to Rhode Island Hospital, and in 14 cases the result was unknown, 1 not found, 15 sent to lodging houses. Third, the character of the cases treated: 228 were acute, and 123 chronic. Fourth, that 182 were males, and 169 females. Fifth, that 327 were white, and 24 colored. Sixth, that 267 were adults, and 84 children. Seventh, that 126 were married, and 161 single, 33 widows, and 31 widowers. Eighth, that 221 that applied were foreigners, and 130 Americans.

CHRISTMAS DINNER.

This year, as in the past, a subscription list was opened through the columns of the *Providence Journal* for the provision of Christmas dinners for the poor. A generous sum was realized, still it proved insufficient to meet the demands and many had to turn away empty handed. If the citizens of our city could but contrast the exultant joy accompanying baskets well laden with everything necessary for a plenteous dinner, with the bitter disappointment following the cold words, "nothing left," they would realize with much gratification the good work done by their donation, and that each penny purchased innumerable times its value in happiness.

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In conclusion I wish to express my thanks to the Mayor, the Committee on Poor, and the members of the City Government, for the many acts of kindness shown me in caring for the wants of the deserving poor of our city.

Respectfully submitted,

MATTHEW J. CUMMINGS,

Overseer of the Poor.

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ESTIMATES

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF PROVIDENCE,

FOR THE

FINANCIAL YEAR ENDING SEPTEMBER 30,

1899.

REPORTED BY THE CITY AUDITOR, MARCH 21, 1898.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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Extracts from Chapter 14, of the Ordinance in Relation to Finances.

Section 21. The city auditor . . . shall annually, on or before the third Monday in March, present to the city council an estimate, in print, of the amount of money necessary to be raised during the financial year, under the respective heads of appropriations, together with an estimate of the receipts from all other sources than taxes. In order to aid the city auditor in making such estimates, the board of aldermen, having charge of the Dexter Asylum, the poor department, and bridges; the overseer of the poor, and the several standing committees of the city council, shall furnish annually, on or before the first Monday in March, such detailed estimates of the amounts required for their several departments as may be required of them by the city auditor; and the heads of the several departments shall also furnish to the several standing committees of the city council such estimates as may be required of them by such committees, and all estimates furnished to the city auditor shall accompany his estimate presented to the city council.

Section 57. The city auditor shall submit to the joint standing committee on finance, for their approval or amendment, the annual estimates of the several standing committees and heads of departments, and the annual estimate of the city auditor, of the amount of money necessary to be raised by taxation, presented to the city council in accordance with the terms of section 21 of this chapter, shall be based upon the estimates of the various committees and heads of departments, as amended or approved by the joint standing committee on finance.

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CITY AUDITOR'S OFFICE, CITY HALL,
PROVIDENCE, R. I., March 21, 1898.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the ordinance in relation to finances, the undersigned submits the following estimates of the receipts and expenses of the City of Providence for the financial year beginning on the first day of October, 1898, and ending on the 30th day of September, 1899:

The estimated expenditures, classified as follows, amount to $3,758,360.91, viz.:

Required to pay notes in 1899	$20,000 00
Required for the sinking funds	192,300 00
Required for the State tax	303,385 91
Required for interest on the city debt	791,575 00
Required for general expenses	2,451,100 00
Amount of estimated expenditures	$3,758,360 91
Amount of estimated receipts	754,681 00
To be raised by taxation	$3,003,679 91

Should there be no material change in the amount of the ratable real and personal estate of the city the present year from that for the year 1897, a tax of $17.26 on each $1,000 of the valuation will meet the estimates of the various departments, as approved and printed in this report.

The taxable valuation of the real and personal property of the city in 1897 was $174,042,480.00, and the rate of tax assessed thereon was $16.50 on each $1,000, producing a revenue of $2,871,700.92, or $3,153.33 less than that for the previous year. The estimated expenditures are $73,840.00 more than the estimates made in 1897, and are $132,778.59 more than the appropriations made by the city council in September last for the expenses of the present fiscal year.

The estimates as approved or amended by the joint standing committee on finance are $341,292.45 less than the estimates as submitted by the city auditor and the various departments.

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The following is a statement of the increase and decrease in the estimates of the departments, and accounts for the fiscal year ending Sept. 30, 1899, as amended by the joint standing Committee on finance, over the appropriations for the fiscal year ending Sept. 30, 1898:

	Increase.	Decrease.
City Clerk	$500 00	
Clerk of Common Council and Clerk of Committees	200 00	
Contingencies	50,000 00	
Fire Department	15,000 00	
Health Department	2,000 00	
Inspector of Plumbing	100 00	
Interest	10,000 00	
Interest on Bonded Debt	14,000 00	
Law Department	1,000 00	
Municipal Court	800 00	
Police Department	15,000 00	
Printing		$500 00
Public Lights	4,000 00	
Public Parks, General Account	1,000 00	
Public Parks — Roger Williams Park	1,200 00	
Public Schools	25,000 00	
Relief Fund for Firemen	1,240 00	
Relief Fund for Policemen	1,238 59	
Sinking Funds		11,000 00
Support of the Poor	2,000 00	
Net increase		132,778 59
	$144,278 59	$144,278 59

The estimates of the various departments as approved or amended by the joint standing committee on finance are submitted herewith.

Respectfully,

PHILIP S. CHASE,

City Auditor.

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RECEIPTS.

AN ESTIMATE OF THE RECEIPTS OF THE CITY OF PROVIDENCE FROM THE VARIOUS SOURCES OTHER THAN FROM TAXES FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1899, APPLICABLE TO THE ORDINARY EXPENSES OF THE CITY.

Fire Department—From sale of old material, etc.....		$200 00
Interest—From interest on taxes, deposits, etc.....		40,000 00
Licenses and Fees—From hacks, wagons, trucks, exhibitions, junk dealers, billiard tables, commissions, etc..		17,000 00
Liquor Licenses—City's proportion.....		140,000 00
Miscellaneous—From various sources, including franchises		82,000 00
Police Department—From fines, etc., in police court, fees of officers, etc.....		15,000 00
Public Lights—From damage to lanterns and sale of old material.....		200 00
Public Schools—From tuition, poll taxes, dog licenses, etc.....	$20,000 00	
From State of Rhode Island.....	25,000 00	
Appropriated by the General Laws of R. I. for the support of Public Schools.....	$45,000 00	
Public Works, Bridges—From sale of material, etc.....		100 00
Rents—From buildings, lands, etc.....		5,000 00
Streets and Sewers—From opening streets and entering sewers.....		2,000 00
Water Works—From labor, material, etc.....	$18,000 00	
From water rents.....	485,000 00	
	$503,000 00	
Less estimated excess over cost of maintenance and interest, held for sinking funds	68,000 00	
		435,000 00
Assessments, Canal street lay-out		18,181 00
Total.....		$754,681 00

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EXPENDITURES.

AN ESTIMATE OF THE AMOUNT OF MONEY WHICH WILL BE REQUIRED TO DEFRAY THE EXPENSES OF THE CITY OF PROVIDENCE FOR THE FISCAL YEAR ENDING SEPT. 30, 1899.

Asylum Walls and Buildings—For repairs of the asylum walls and buildings	$2,000 00
Auditing Department—For salaries of the City Auditor and assistants, and all expenses of office	7,500 00
City Clerk's Department—For salaries of the City Clerk and assistants, and all expenses of office	8,500 00
City Council—For salaries of the aldermen and councilmen; expenses of all committees of the city council, or either branch thereof, and all expenses of the city council	22,000 00
City Hall—For salary of the City Messenger, and for the care and maintenance of the city hall, expenses of office, pay of employes, and messenger service	25,000 00
Clerk of Common Council and Clerk of Committees—For salaries of the clerk of the common council and clerk of committees, and assistant, and all expenses of office	3,800 00
Contingencies—For appropriations made by the city council, including public celebrations, and for such other objects and claims as are not specified in this ordinance	75,000 00
Elections—For salaries and office expenses of the Board of Canvassers and Registration, and all expenses attendant upon elections, including advertising, ballots, stationery, and pay of district wardens, clerks. and supervisors	18,000 00
Executive Department—For salaries of the Mayor, mayor's clerk, and one messenger authorized by chapter 32 of the city ordinances, all expenses of office, and including the sum of five hundred dollars which the Mayor is authorized to expend	7,200 00
Fire Department—For salaries of the officers and members of the Fire Department, office expenses, rent of land for fire stations, expenses of the Fire Marshal, new apparatus, water, supplies and repairs of apparatus	350,000 00
Amount carried forward	$519,000 00

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Amount brought forward	$519,000 00
Harbor—For salary of the Harbor Master, and for dredging the docks and harbor	10,000 00
Health Department—For salaries of the Superintendent of Health, his assistants, inspectors, and employés; expenses of collecting and recording births, marriages, and deaths; all hospital and quarantine expenses, medicines, and vaccinations; removal of swill and house offal from the city, and all expenses pertaining to the health of the city	46,000 00
Inspector of Buildings—For salaries of the Inspector of Buildings, assistant, and clerk and all expenses of office.	4,300 00
Inspector of Milk—For salaries of the Inspector of Milk, and assistants, and all expenses of office	5,000 00
Inspector of Plumbing—For salaries of the Inspector of Plumbing, assistants and clerk, and all expenses of office	5,500 00
Interest, viz.:	
On the floating debt	40,000 00
On city hall and sewer loan due June 1, 1899	27,600 00
On Davis estate loan due July 1, 1909	3,000 00
On highway loan due May 1, 1924	48,000 00
On highway loan due April 1, 1927	20,000 00
On park loan due March 1, 1922	20,000 00
On park loan due May 1, 1947	23,590 00
On public improvement loan due July 1, 1899	22,500 00
On public improvement loan due July 1, 1900	7,300 00
On public improvement loan due May 1, 1937	22,400 00
On school loan due July 1, 1911	12,000 00
On school loan due May 1, 1925	12,000 00
On school loan due April 1, 1927	20,000 00
On school loan due April 1, 1928	7,000 00
On sewer loan due July 1, 1921	45,000 00
On sewer loan due March 1, 1922	20,000 00
On sewer loan due April 1, 1923	20,000 00
On sewer loan due May 1, 1925	32,000 00
On sewer loan due June 1, 1926	20,000 00
On sewer loan due April 1, 1927	12,000 00
On sewer loan due April 1, 1928	7,000 00
On water loan due July 1, 1900	208,200 00
On water loan due July 1, 1906	75,000 00
On water loan due September 1, 1916	16,905 00
On water loan due April 1, 1923	32,680 00
On water loan due June 1, 1926	8,000 00
On water loan due April 1, 1927	10,000 00
Amount carried forward	$1,389,375 00

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Amount brought forward	$1,381,375 00
Law Department—For salaries of the City Solicitor and assistants, and all expenses of the law department, including officers' and witness' fees	14,000 00
License Commissioners—For salaries of the License Commissioners and all expenses of office	3,300 00
Municipal Court—For salaries of the Judge and Clerk of the municipal court and assistants, and all expenses of office	7,000 00
Police Department—For salaries of the officers and members of the police department and all supplies, repairs of apparatus, and expenses of the department; and the salaries of the police justices and expenses of the police court	350,000 00
Printing—For the printing of city documents required by the city ordinances or by the city council, and the City Council Resolutions	6,000 00
Providence Public Library—For the aid of the Providence Public Library	10,000 00
Public Buildings—For repairs and maintenance of public buildings, including the salaries of the superintendent and clerk, pay of employés, rent of Pioneer Hall lot, so-called, and all expenses of office	65,000 00
Public Lights—For salary of the Superintendent of Lights and all expenses of the office and department	284,000 00
Public Parks—For the care and maintenance of all public parks, excepting Roger Williams Park, salaries of the Superintendent of Parks, clerk of the park commissioners and all expenses of office	8,000 00
For maintenance and improvement of Roger Williams Park	32,000 00
Public Schools—For the support of the public schools, including salaries of all officers, teachers, and employés of the school department, the salary and expenses of the truant officer, and rent of Dexter Donation land for school purposes, all money received for poll taxes, dog licenses, tuition, sale of materials, and from the State for public education, and in addition thereto	550,000 00
Public Works—For construction, repair, and maintenance of public bridges	25,000 00
For salaries of the City Engineer and assistants and all expenses of office	50,000 00
For building, cleaning, and repairing highways	200,000 00
For salaries of the Commissioner of Public Works, secretary and office assistants, and all office expenses	21,000 00
For care and maintenance of sewers	65,000 00
For sidewalks and curbing	2,000 00
For care and maintenance of the water works	86,000 00
Amount carried forward	$3,159,675 00

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Amount brought forward		$3,159,675 00
Record Commissioners—For all expenses incident to collecting and printing the early records of the town of Providence		2,000 00
Recorder of Deeds—For salaries of the Recorder of Deeds and his assistants and all expenses of the office		6,000 00
Relief Fund for Firemen		1,500 00
Relief Fund for Policemen		1,500 00
Rhode Island Hospital—Hospital service	$5,000 00	
Ambulance service	3,000 00	8,000 00
Sinking Funds to Redeem Loans—		
Davis estate loan due July 1, 1909		3,000 00
Highway loan due May 1, 1924		25,000 00
Highway loan due April 1, 1927		10,000 00
Park loan due March 1, 1922		10,000 00
Park loan due May 1, 1947		5,750 00
Public improvement loan due July 1, 1899		13,550 00
Public improvement loan due July 1, 1900		4,500 00
Public improvement loan due May 1, 1937		8,200 00
School loan due July 1, 1911		13,300 00
School loan due May 1, 1925		5,000 00
School loan due April 1, 1927		10,000 00
School loan due April 1, 1928		4,000 00
Sewer loan due July 1, 1921		25,000 00
Sewer loan due March 1, 1922		10,000 00
Sewer loan due April 1, 1923		10,000 00
Sewer loan due May 1, 1925		15,000 00
Sewer loan due June 1, 1926		10,000 00
Sewer loan due April 1, 1927		6,000 00
Sewer loan due April 1, 1928		4,000 00
Special Highway Loan—For the payment of note issued under authority of chapter 243		20,000 00
State Tax—For the city's proportion of the State tax		303,385 91
Sealer of Weights and Measures—For salary of the City Sealer and such expenses of office as are authorized by law		3,000 00
Support of the Poor—For support of the poor, removal of paupers, burial of bodies, maintenance of the charity wood yard, salaries of the overseer of the poor and assistants and expenses of office		18,000 00
Tax Department—For salaries of the Assessors of taxes and assistants and all office expenses		18,000 00
Treasury Department—For salaries of the City Treasurer, the Deputy City Treasurer and assistants, and all office expenses		25,000 00
Total estimated expenditures for 1898-99		$3,758,360 91

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STATEMENT OF EXPENDITURES

For the fiscal year ended September 30, 1897, appropriations for the present fiscal year; estimates of departments and officials for the year ending September 30, 1899, and the same as approved by the joint standing committee on finance.

Titles of Accounts.	Expenditures, 1896-7.	Appropriations, 1897-8.	Estimates of Departments and Officials, 1898-9.	Estimates Approved by Finance Committee, 1898-9.
Asylum Walls and Buildings	$1,988 07	$2,000 00	$2,000 00	$2,000 00
Auditing Department	7,198 91	7,500 00	7,500 00	7,500 00
City Clerk's Department	8,183 47	8,000 00	8,500 00	8,500 00
City Council	22,393 45	22,000 00	22,000 00	22,000 00
City Hall	25,000 00	25,000 00	27,000 00	25,000 00
Clerk of Common Council and Clerk of Committees	3,197 23	3,600 00	3,940 00	3,800 00
Contingencies	125,852 34	25,000 00	75,000 00	75,000 00
Elections	17,999 92	18,000 00	18,000 00	18,000 00
Executive Department	7,833 99	7,200 00	7,200 00	7,200 00
Fire Department	337,986 76	335,000 00	†325,768 50	350,000 00
Harbor	10,606 56	10,000 00	10,000 00	10,000 00
Health	45,856 46	44,000 00	53,000 00	46,000 00
Inspector of Buildings	4,124 78	4,300 00	4,500 00	4,300 00
Inspector of Milk	5,197 28	5,000 00	5,000 00	5,000 00
Inspector of Plumbing	5,573 60	5,400 00	5,517 00	5,500 00
Interest	106,297 13	30,000 00	40,000 00	40,000 00
Interest on City Hall and Sewer Loan, due June 1, 1899	27,000 00	27,000 00	27,000 00	27,000 00
Interest on Davis Estate Loan, due July 1, 1909	3,000 00	3,000 00	3,000 00	3,000 00
Interest on Highway Loan, due May 1, 1924	48,000 00	48,000 00	48,000 00	48,000 00
Interest on Highway Loan, due April 1, 1927	.....	20,000 00	20,000 00	20,000 00
Interest on Park Loan, due March 1, 1922	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Park Loan, due May 1, 1947	.....	23,590 00	23,590 00	23,590 00
Interest on Public Improvement Loan, due July 1, 1899	22,500 00	22,500 00	22,500 00	22,500 00
Interest on Public Improvement Loan, due July 1, 1900	7,300 00	7,300 00	7,300 00	7,300 00
Interest on Public Improvement Loan, due May 1, 1937	.....	22,400 00	22,400 00	22,400 00
Interest on School Loan, due July 1, 1911	12,000 00	12,000 00	12,000 00	12,000 00
Interest on School Loan, due May 1, 1925	12,000 00	12,000 00	12,000 00	12,000 00
Interest on School Loan, due April 1, 1927	.....	20,000 00	20,000 00	20,000 00

†Charge for water to be added.

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Interest on School Loan, due April 1, 1928	.....	.....	$7,000 00	$7,000 00
Interest on Sewer Loan, due July 1, 1921	$45,000 00	$45,000 00	45,000 00	45,000 00
Interest on Sewer Loan, due March 1, 1922	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Sewer Loan, due April 1, 1923	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Sewer Loan, due May 1, 1925	32,000 00	32,000 00	32,000 00	32,000 00
Interest on Sewer Loan, due June 1, 1926	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Sewer Loan, due April 1, 1927	.....	12,000 00	12,000 00	12,000 00
Interest on Sewer Loan, due April 1, 1928	.....	.....	7,000 00	7,000 00
Interest on Water Loan, due July 1, 1900	208,200 00	208,200 00	208,200 00	208,200 00
Interest on Water Loan, due July 1, 1906	75,000 00	75,000 00	75,000 00	75,000 00
Interest on Water Loan, due Sept. 1, 1916	16,905 00	16,905 00	16,905 00	16,905 00
Interest on Water Loan, due April 1, 1923	32,680 00	32,680 00	32,680 00	32,680 00
Interest on Water Loan, due June 1, 1926	8,000 00	8,000 00	8,000 00	8,000 00
Interest on Water Loan, due April 1, 1927	.....	10,000 00	10,000 00	10,000 00
Law Department	13,249 45	13,000 00	14,000 00	14,000 00
License Commissioners	3,414 95	3,300 00	4,000 00	3,300 00
Municipal Court	6,296 46	6,200 00	7,221 20	7,000 00
Police Department	334,999 92	335,000 00	375,142 25	350,000 00
Printing	5,654 17	6,500 00	6,000 00	6,000 00
Providence Public Library	10,000 00	10,000 00	10,000 00	10,000 00
Public Buildings	113,593 88	65,000 00	85,000 00	65,000 00
Public Lights	283,500 00	280,000 00	286,070 00	284,000 00
Public Parks — General Account	8,236 21	*7,000 00	10,000 00	*8,000 00
Public Parks — Roger Williams Park	32,110 58	*30,800 00	35,000 00	*32,000 00
Public Schools	561,893 98	*525,000 00	688,672 96	*550,000 00
Public Works — Bridges	28,585 07	25,000 00	47,860 54	25,000 00
Public Works — City Engineer's Department	47,999 49	50,000 00	50,000 00	50,000 00
Public Works — Highways	244,041 58	*200,000 00	300,000 00	*200,000 00
Public Works — Office	20,050 45	21,000 00	22,000 00	21,000 00
Public Works — Sewer Maintenance	36,154 91	*65,000 00	90,000 00	*65,000 00
Public Works — Sidewalks and Curbing	26,898 49	*2,000 00	2,000 00	*2,000 00
Public Works — Water Works Maintenance	88,557 99	86,000 00	98,000 00	86,000 00
Record Commissioners	2,200 00	2,000 00	3,000 00	2,000 00
Recorder of Deeds	5,799 04	6,000 00	6,000 00	6,000 00
Relief Fund for Firemen	260 60	260 00	1,500 00	1,500 00
Relief Fund for Policemen	260 70	261 41	1,500 00	1,500 00
Rhode Island Hospital	8,000 00	8,000 00	8,000 00	8,000 00
Sinking Fund, City Hall and Sewer Loan, due June 1, 1899	19,000 00	19,000 00	.....	.....

*Receipts to be added.

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STATEMENT OF EXPENDITURES.—*Continued.*

Titles of Accounts.	Expenditures, 1896-7.	Appropriations, 1897-8.	Estimates of Departments and Officials, 1898-9.	Estimates Approved by Finance Committee, 1898-9.
Sinking Fund, Davis Estate Loan, due July 1, 1909	$3,000 00	$3,000 00	$3,000 00	$3,000 00
Sinking Fund, Highway Loan, due May 1, 1924	25,000 00	25,000 00	25,000 00	25,000 00
Sinking Fund, Highway Loan, due April 1, 1927	.....	10,000 00	10,000 00	10,000 00
Sinking Fund, Park Loan, due March 1, 1922	10,000 00	10,000 00	10,000 00	10,000 00
Sinking Fund, Park Loan, due May 1, 1947	.....	5,750 00	5,750 00	5,750 00
Sinking Fund, Public Improvement Loan, due July 1, 1899	13,550 00	13,550 00	13,550 00	13,550 00
Sinking Fund, Public Improvement Loan, due July 1, 1900	4,500 00	4,500 00	4,500 00	4,500 00
Sinking Fund, Public Improvement Loan, due May 1, 1937	.....	8,200 00	8,200 00	8,200 00
Sinking Fund, School Loan, due July 1, 1911	13,300 00	13,300 00	13,300 00	13,300 00
Sinking Fund, School Loan, due May 1, 1925	5,000 00	5,000 00	5,000 00	5,000 00
Sinking Fund, School Loan, due April 1, 1927	.....	10,000 00	10,000 00	10,000 00
Sinking Fund, School Loan, due April 1, 1928	.....	.....	4,000 00	4,000 00
Sinking Fund, Sewer Loan, due July 1, 1921	25,000 00	25,000 00	25,000 00	25,000 00
Sinking Fund, Sewer Loan, due March 1, 1922	10,000 00	10,000 00	10,000 00	10,000 00
Sinking Fund, Sewer Loan, due April 1, 1923	10,000 00	10,000 00	10,000 00	10,000 00
Sinking Fund, Sewer Loan, due May 1, 1925	15,000 00	15,000 00	15,000 00	15,000 00
Sinking Fund, Sewer Loan, due June 1, 1926	10,000 00	10,000 00	10,000 00	10,000 00
Sinking Fund, Sewer Loan, due April 1, 1927	.....	6,000 00	6,000 00	6,000 00
Sinking Fund, Sewer Loan, due April 1, 1928	.....	.....	4,000 00	4,000 00
Special Highway Loan	40,000 00	20,000 00	20,000 00	20,000 00
State Tax	455,078 86	303,385 91	303,385 91	303,385 91
Sealer of Weights and Measures	1,949 73	3,000 00	3,500 00	3,000 00
Support of the Poor	23,768 00	*16,000 00	19,000 00	*18,000 00
Tax Department	16,897 59	18,000 00	19,000 00	18,000 00
Treasury Department	25,415 50	25,000 00	25,000 00	25,000 00
		$3,025,582 32	$4,099,653 36	$3,758,360 91

*Receipts to be added.

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ESTIMATES OF DEPARTMENTS.

ASYLUM WALLS AND BUILDINGS, BRIDGES, HEALTH, AND POOR DEPARTMENT.

CITY CLERK'S OFFICE,
CITY HALL, February 4, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The Board of Aldermen estimated at their meeting, February 3, 1898, that the following sums would be necessary for the maintenance of Asylum Walls and Buildings, Public Bridges, Health Department, and Poor Department, for the fiscal year ending September 30, 1899, viz. :

Asylum Walls and Buildings		$2,000 00

PUBLIC BRIDGES.

Point street bridge, repairs and supplies		$12,000 00
Washington bridge, repairs and supplies		3,500 00
Red bridge, repairs and supplies		2,500 00
Mill street bridge, reconstructed on new lines		12,000 00
Branch avenue bridge at Wanskuck, superstructure rebuilt of steel		5,000 00
Various other bridges and miscellaneous work		5,000 00
The salaries of the attendants at the draw bridges, at present rates, will amount to:		
Point street bridge	$3,923 75	
Washington bridge	1,929 29	
Red bridge	2,007 50	
		7,860 54
Total		$47,860 54

HEALTH DEPARTMENT.

Salary of Superintendent of Health	$2,000 00
Removal of swill	25,000 00
Care contagious disease	7,000 00
Inspector of Provisions	1,200 00
Amount carried forward	$35,200 00

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Amount brought forward	$35,200 00
Salary Inspector of Nuisances	625 00
Salary Medical Inspector	1,500 00
Disinfector	625 00
Clerk	500 00
Printing, advertising, supplies, etc	2,000 00
Registration expenses	3,500 00
Horses, ambulance, etc	1,200 00
Serving notices	800 00
Disinfection expenses	500 00
Man at dump	500 00
Vaccination	500 00
Telephones	180 00
Quarantine Sentinel	200 00
Car fare	150 00
Ambulance	500 00
Bacteriologist	750 00
Medical inspection of schools	3,500 00
Miscellaneous	270 00
Total	$53,000 00

POOR DEPARTMENT.

For out-door poor	$9,000 00
For charity building and wood yard	6,000 00
For burial of paupers	1,200 00
For medical attendance and Hospital expenses	1,400 00
For salary	1,400 00
Total	$19,000 00

Respectfully yours,

WM. E. CLARKE,

City Clerk.

Approved for $2,000.00 for Asylum Walls and Buildings; $46,000.00 for Health Department; $18,000.00 for Support of the Poor; and $25,000.00 for Public Bridges, by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

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CITY CLERK'S DEPARTMENT.

CITY CLERK'S OFFICE,
CITY HALL, February 1, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In reply to yours of the 1st inst., I will state that the estimated expense of this Department for the fiscal year ending September 30, 1899, is $8,500.00, and the estimated receipts for the same period is $20,500.00.

Very respectfully yours,

WM. E. CLARKE,
City Clerk.

Approved for $8,500.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

CITY HALL.

OFFICE OF THE CITY MESSENGER,
CITY HALL, February 19, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: The estimated amount of money that will be required for the care and maintenance of the City Hall for the fiscal year ending September 30, 1899, is $27,000.00.

Very respectfully yours,

EDWARD S. RHODES,
City Messenger.

Approved for $25,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

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CLERK OF COMMON COUNCIL AND CLERK OF COMMITTEES.

CLERK OF THE COMMON COUNCIL AND CLERK OF COMMITTEES DEPARTMENT, CITY HALL, February 7, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In compliance with your request of February 1, 1898, I beg to state that the estimated requirements for defraying the expenses of this Department for the financial year ending September 30, 1899, are as follows, viz.:

For salary of Clerk	$2,800 00
For salary of assistant	520 00
For printing, record books, and general office supplies	500 00
For telephone	120 00
	$3,940 00

Very respectfully yours,

D. F. HAYDEN,

Clerk of Common Council and Clerk of Committees.

Approved for $3,800.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

ELECTIONS.

BOARD OF CANVASSERS AND REGISTRATION, CITY HALL, February 24, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

SIR: In response to your request of February 1, 1898, it is estimated that the amount of money which will be required for Elections for the fiscal year ending September 30, 1899, will be $18,000.00. The receipts of the Board of Canvassers and Registration for the same period, arising from fees, are estimated at $200.00.

Yours respectfully,

CHAS. E. SMITH,

Clerk Board of Canvassers and Registration.

Approved for $18,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

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EXECUTIVE DEPARTMENT.

EXECUTIVE DEPARTMENT,
CITY HALL, February 2, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: The estimate of the amount of money that will be required by this department for the fiscal year ending September 30, 1899, is as follows:

For salaries of the Mayor, mayor's clerk, and one messenger authorized by chapter 32 of the city ordinances; all expenses of office, including the sum of five hundred dollars which the Mayor is authorized to expend, $7,200.00.

Yours respectfully,

WILLIAM C. BAKER,
Mayor.

Approved for $7,200.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

FIRE DEPARTMENT.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS,
CITY HALL, March 5, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: Herewith please find estimate, in detail, of the amount of money required for the maintenance of the Fire Department during the fiscal year ending September 30, 1899.

SALARIES.

3 Fire Commissioners, each at $800 per annum	$2,400 00
1 Clerk	1,600 00
1 Chief Engineer	2,000 00
1 Deputy Chief Engineer	1,500 00
Amount carried forward	$7,500 00

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Amount brought forward	$7,500 00	
1 Superintendent of Fire Alarms	1,800 00	
2 Assistant Engineers, each at $1,400 per annum	2,800 00	
28 Foremen, each at $3.50 per day	35,770 00	
28 Assistant Foremen, each at $3.15 per day	32,193 00	
8 Enginemen, each at $3.25 per day	9,490 00	
150 Privates, each at $3.00 per day	164,250 00	
18 Privates, each at $2.67 per day	17,541 90	
8 Privates, each at $2.33 per day	6,803 60	
16 Call Men, each at $250 per annum	4,000 00	
265 Men.		$282,148 50

EXPENSES.

Horse Feed and Bedding	$9,000 00	
Fire Alarm Telegraph	4,000 00	
Fire Hose	4,000 00	
New Apparatus and Equipments	3,000 00	
Fuel	4,300 00	
Gas	3,200 00	
Repairing apparatus	2,500 00	
Supplies	2,000 00	
Horses	3,000 00	
Horse shoeing	1,900 00	
Furniture and Bedding (including renovation of mattresses)	1,500 00	
Laundry work	1,000 00	
Extra Horses in winter	1,000 00	
Veterinary attendance	1,000 00	
Printing and Stationery	600 00	
Harnesses, supplies, and repairs	300 00	
Painting apparatus	450 00	
Ice at Stations	220 00	
Rent	50 00	
Miscellaneous expenses	600 00	
		$43,620 00

SUMMARY.

Salaries	$282,148 50
Expenses	43,620 00
Total	$325,768 50

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If the charge for water is to be paid by this department such additional sum will be required for that purpose as the Commissioner of Public Works may designate.

Yours respectfully,

STILLMAN WHITE,
WM. H. LUTHER,
DEXTER GORTON,
Board of Fire Commissioners.

Approved for $350,000.00, including charge for water, by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

HARBOR.

CLERK OF THE COMMON COUNCIL AND CLERK OF COMMITTEES DEPARTMENT, CITY HALL, February 7, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: I am directed by the Committee on Harbor to state, in compliance with your request of February 1, 1898, that the estimated amount required for dredging the harbor, including the salary of Harbor Master, for the financial year ending September 30, 1899, is $10,000.00.

Very respectfully yours,

D. F. HAYDEN,
Clerk of Committees.

Approved for $10,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

INSPECTOR OF BUILDINGS.

OFFICE OF INSPECTOR OF BUILDINGS,
CITY HALL, PROVIDENCE, R. I., Feb. 25, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: Herewith please find estimate, in detail, of the amount of money required for the maintenance of the Inspector of Buildings Department, during the fiscal year ending Sept. 30, 1899:

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Salaries	$3,832 00
Telephone	120 00
Contingencies	548 00
Total	$4,500 00

Respectfully submitted,

SPENCER B. HOPKINS,

Inspector of Buildings.

Approved for $4,300.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

INSPECTOR OF MILK.

OFFICE OF INSPECTOR OF MILK,
PROVIDENCE, R. I., Feb. 25, 1898.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In accordance with your request for an estimate of the amount of money that will be required by the Department of Milk Inspection, I compute that the sum of $5,000.00 will be necessary to meet the expenses for the fiscal year ending Sept. 30, 1899.

There are no receipts.

Respectfully,

CHARLES A. POTTER,

Inspector of Milk.

Approved for $5,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

INSPECTOR OF PLUMBING.

OFFICE OF INSPECTOR OF PLUMBING,
CITY HALL, PROVIDENCE, R. I., March 2, 1898.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your communication requesting an estimate of the amount needed for this department during the next fiscal year, I herewith submit the following:

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Salary of Inspector	$1,500 00
" two assistant inspectors	2,184 00
" clerk	780 00
Car fares	350 00
Board of horse and maintenance	305 00
Rent of telephone	120 00
Printing, stamps, postal cards, etc	240 00
Stationery and supplies	38 00
Total	$5,517 00

Yours respectfully,

REUBEN S. BEMIS,

Inspector of Plumbing.

Approved for $5,500.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

LAW DEPARTMENT.

CITY SOLICITOR'S OFFICE,
CITY OF PROVIDENCE, Feb. 25, 1898.

HON. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The amount charged to legal expenses to be covered by the appropriation for the Law Department depends so largely upon contingencies, which cannot be foretold, that it is difficult to form an estimate. The amount you suggest, $14,000.00, would, however, probably be sufficient.

Respectfully submitted,

WM. B. GREENOUGH,

Second Assistant City Solicitor.

Approved for $14,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

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LICENSE COMMISSIONERS.

OFFICE OF THE LICENSE COMMISSIONERS,
CITY HALL, Feb. 23, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: Below please find estimates for the fiscal year ending Sept. 30, 1899:

Receipts	$190,000 00
Expenses	4,000 00

Yours truly,

THOMAS NIXON,
Clerk.

Approved for $3,300.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

MUNICIPAL COURT.

MUNICIPAL COURT OF THE CITY OF PROVIDENCE,
CITY HALL, Feb. 17, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In reply to your request to furnish your department with an estimate of the amount of money that will be required for the conduct of this office for the fiscal year ending Sept. 30, 1899, I would state as follows:

EXPENDITURES.

For the salary of the Judge of the Court	$2,000 00
For the salary of the Clerk of the Court	1,700 00
For the salaries of three assistants	1,721 20
For expenses of printing, repairs on old volumes, and new record books, stationery, and general office supplies, and preparation of new probate index	1,800 00
	$7,221 20

The estimated receipts of the office, based on the amount received last year, will be about $8,500.

Respectfully submitted.

EDWARD FIELD,
Clerk.

Approved for $7,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

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POLICE DEPARTMENT.

OFFICE OF THE CHIEF OF POLICE,
CITY HALL, March 5, 1898.

PHILIP S. CHASE, CITY AUDITOR.

SIR: I herewith present an estimate of the expenses and receipts of the Police Department for the fiscal year ending Sept. 30, A. D. 1899:

Salary of Chief of Police	$2,250 00
" Deputy Chief of Police	1,550 00
" 7 captains	8,942 50
" 7 lieutenants	8,303 75
" 16 sergeants	18,281 00
" 5 detectives	6,843 75
" 1 clerk	1,277 50
" 1 police surgeon	1,200 00
" 1 superintendent of hacks	1,186 25
" 1 messenger	520 00
" 2 police matrons	1,100 00
" 1 hostler	730 00
" 1 line man	1,003 75
" 1 battery man	520 00
" 1 engineer	912 50
" 12 patrol drivers	8,760 00
" 7 janitors	4,306 25
" 10 superannuated officers	4,000 00
" 2 police court justices	2,000 00
" 204 patrolmen, at $3.00 per day	223,380 00
" 32 " " $2.75 "	32,120 00
" 3 " " $2.25 "	2,463 75
" 13 " " $2.25 " new officers	10,676 25
Gas	4,500 00
Signal Service, telephone lines, etc	3,500 00
Fuel	3,500 00
Stable expenses	2,700 00
Board of prisoners, Providence County Jail	6,000 00
Printing, postage, stationery, etc	1,000 00
Hardware, tools, and supplies	1,200 00
Water	835 00
Horses	800 00
Miscellaneous	600 00
Food for prisoners	600 00
Horse shoeing	600 00
Transportation to State institutions	550 00
Costs in State cases	600 00
Amount carried forward	$369,312 25

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Amount brought forward	$369,312 25
Wreaths, buttons, etc	400 00
Expenses of detectives, travel, etc	400 00
Wagon repairs	400 00
Electric lights, Station No. 1	400 00
Harnesses and repairs	300 00
Furniture and furnishings for 7 police stations	1,000 00
Attendance of veterinary surgeon and dentist	175 00
Ice	130 00
Telegraph and telephone messages	100 00
Rhode Island Hospital, delirium tremens cases	100 00
Directories	100 00
Revolvers, badges. repairs, etc	100 00
Medical attendance at Providence County Jail	75 00
Laundry	310 00
Flags and flagstaffs	150 00
Police committee investigations	50 00
Bedding	50 00
Photographing criminals	40 00
Medical attendance, emergency cases	25 00
Witness' fees in Police Court	25 00
Contingencies	500 00
New poles	1,000 00
Total	$375,142 25

ESTIMATED RECEIPTS.

Fines, fees, costs, etc., from Police Court	$8,500 00
Officers' fees, service on warrants, etc., 6th District Court	5,000 00
Fees for committing to State institutions	2,000 00
Services of police at exhibitions	125 00
Sale of old metal, wire, etc	100 00
Fees for registering dogs	960 00
Total	$16,685 00

No portion of the receipts can be used by the Police Department.

Respectfully submitted,

JAMES H. KELLEY,

Chairman Joint Committee on Police.

Approved for $350,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

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PUBLIC BUILDINGS DEPARTMENT.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS,
CITY HALL, February 15, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: I herewith submit an estimate of the amount, in my judgment, will be required for the fiscal year ending September 30, 1899, as follows, viz.:

Renovating the different school buildings by painting outside and inside, repairing and tinting walls and ceilings	$30,000 00
General repairs to school buildings, fences, heating apparatus, plumbing, concreting, etc	25,000 00
Connecting school estates with sewer	2,000 00
Repairs to Fire Stations, heating, plumbing, etc	11,000 00
Repairs to Police Stations, heating, plumbing, etc	8,000 00
Repairs to miscellaneous buildings, such as Bath Houses, Bell Towers, Highway Department Buildings, etc	3,000 00
Salary of Superintendent, clerk, foreman, teamster, and stable expense	6,000 00
	$85,000 00

Respectfully submitted,

BURMAH E. PERKINS,
Chairman Committee on City Property.

Approved for $65,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

PUBLIC LIGHTS DEPARTMENT.

OFFICE OF THE SUPERINTENDENT OF LIGHTS,
CITY HALL, PROVIDENCE, March 1, 1898.

PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: Herewith please find estimated amount of money that will be required by the Lamp Department for the fiscal year ending September 30, 1899.

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Electric Lights	$231,045 00
Gasolene	31,500 00
Gas	13,500 00
Gas Lighting	6,125 00
Salary	1,700 00
Gas Co., labor	1,000 00
Yard labor	300 00
Barn expenses	500 00
Stock for workshop	200 00
Telephone and printing	200 00
	$286,070 00

By sale of unused material, $200.00.

Respectfully submitted,

DENNIS H. SHEAHAN,

Chairman.

Approved for $284,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

PUBLIC PARKS DEPARTMENT.

BOARD OF PARK COMMISSIONERS,
PROVIDENCE, R. I., February 7, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: Replying to your letter of February 1st, asking for an estimate of the amount required for this department for the fiscal year ending September 30, 1899, I have the honor to state that for Roger Williams Park the sum of $35,000 will be needed, and for Public Parks the sum of $10,000 will be required.

Very respectfully yours,

R. H. DEMING,

President Park Commissioners.

Approved for $32,000.00 for Roger Williams Park, and for $8,000.00 for Public Parks General Account, by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

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PUBLIC SCHOOL DEPARTMENT.

DEPARTMENT OF PUBLIC SCHOOLS,
OFFICE OF SECRETARY,
CITY HALL, February 28, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The School Committee presents the following estimates of the amount of money which will be required for the support of the public schools for the fiscal year ending September 30, 1899:

For salaries		$480,325 00
" fuel		35,000 00
" evening schools		39,000 00
" books, supplies, and apparatus		45,500 00
" water		6,000 00
" miscellaneous items		14,064 00
" contingencies		5,000 00
" school houses:		
Janitors and supplies	$51,283 96	
Furniture and repairs	12,500 00	
		63,783 96
Total		$688,672 96

Very respectfully,

HENRY B. ROSE,
Secretary.

Approved for $550,000.00, in addition to amounts received from poll taxes, dog licenses, etc., and from State for public education, by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

PUBLIC WORKS — CITY ENGINEER'S DEPARTMENT.

EXECUTIVE DEPARTMENT,
CITY HALL, February 3, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: It is estimated that the following amount of money will be required for the support of the City Engineer's Department for the fiscal year ending September 30, 1899, viz.:

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Salary — City Engineer	$4,500 00
Salaries of assistants	39,000 00
Salaries of clerks	3,200 00
Supplies, drawing material, etc.	1,500 00
Car fares	1,200 00
Instruments and repairs	400 00
Sundries	200 00
Total	$50,000 00

Should the City Council order a system of filtration for the water works, an additional sum of $5,000.00 will be required for salaries of assistant engineers.

Yours respectfully,

WILLIAM C. BAKER,

Mayor and Chairman Committee on City Engineer's Department.

Approved for $50,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

PUBLIC WORKS — HIGHWAYS.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, R. I., February 2, 1898.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money that will be required for the fiscal year ending September 30, 1899, viz.:

For Highway Department	$300,000 00
Receipts for same period	2,000 00

Yours respectfully,

ROBERT E. SMITH,

Commissioner.

Approved for $200,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

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PUBLIC WORKS—OFFICE.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, R. I., February 2, 1898.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money that will be required for the fiscal year ending September 30, 1899, viz.:

For Public Works, office account.....	$22,000 00

Yours respectfully,

ROBERT E. SMITH,
Commissioner.

Approved for $21,000.00 by the Joint Standing Committtee on Finance.

J. W. ANGELL,
Chairman.

PUBLIC WORKS—SEWER MAINTENANCE.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, R. I., February 4, 1898.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money that will be required for the fiscal year ending September 30, 1899, viz.:

For sewer maintenance account, including running expenses at Ernest Street sewage pumping station, and also including $25,000.00 for six months' running expenses for precipitation tanks.....	$90,000 00
Receipts for same period.....	500 00

Yours respectfully,

ROBERT E. SMITH,
Commissioner.

Approved for $65,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

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PUBLIC WORKS—WATER MAINTENANCE.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, R. I., Feb. 2, 1898.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money that will be required for the fiscal year ending Sept. 30, 1899, viz.:

For maintenance account, water works, inclusive of the sum of $8,000.00 for new boilers for the Corliss Engine at Pettaconsett	$98,000 00
Income:	
From sale of water	$485,000 00
From sale of water meters	13,000 00
From rents, labor, materials, etc	5,000 00

Yours respectfully,

ROBERT E. SMITH,
Commissioner.

Approved for $86,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

RECORD COMMISSIONERS.

OFFICE OF THE RECORD COMMISSIONERS,
CITY HALL, PROVIDENCE, Feb. 17, 1898.

COL. PHILIP S. CHASE, CITY AUDITOR,
PROVIDENCE, RHODE ISLAND.

DEAR SIR: In reply to your request to furnish your department with the estimated amount of money required for this department for the fiscal year ending Sept. 30, 1899, I would say that to continue the work which is now in progress and to pay the bills which will be contracted in connection with collecting and printing the Early Records of the Town of Providence, the sum of $3,000.00 will be required.

Respectfully submitted,

EDWARD FIELD,
Secretary.

Approved for $2,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

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RECORDER OF DEEDS.

OFFICE OF THE RECORDER OF DEEDS,
PROVIDENCE, R. I., Feb. 28, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: In compliance with the ordinances of the city I herewith submit an estimate of the amount of money that will be required for this department for the fiscal year ending Sept. 30, 1899, and an estimate of the receipts for the same period:

Expenditures	$6,000 00
Receipts	6,900 00

Very respectfully,

EDWARD C. JOYCE,

Recorder of Deeds.

Approved for $6,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

SEALER OF WEIGHTS AND MEASURES.

PROVIDENCE, R. I., Feb. 21, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: In answer to your communication of the 1st inst., requesting estimate of the amount of money that will be required for the department of weights and measures and street signs and numbers, I beg to report as follows:

It is estimated that these departments will require for the fiscal year ending Sept. 30, 1899, the sum of $3,500.

It is also estimated that the receipts for the same period will amount to $2,200.00.

Yours respectfully,

WALTER B. VINCENT,

Chairman of Committee on Street Signs and Numbers.

Approved for $3,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,

Chairman.

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TAX DEPARTMENT.

ASSESSORS' OFFICE,
CITY HALL, February 16, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: In response to your request of the first instant, the following estimate of the probable expenses of this department for the year ending September 30, 1899, is herewith submitted:

For salaries	$13,000 00
" expenses of assessing the poll tax	3,000 00
" temporary assistants	1,500 00
" stationery and incidental expenses	1,500 00
Total estimated expenses	$19,000 00

Very respectfully,

ARTHUR H. ARMINGTON,
Secretary.

Approved for $18,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

TREASURY DEPARTMENT.

CITY TREASURER'S OFFICE,
PROVIDENCE, February 11, 1898.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: As required by Section 21 Chapter 14 of the Ordinances, I beg to say that I estimate the amount required for the City Treasury Department for the fiscal year ending September 30, 1899, to be Twenty-five thousand dollars.

I am, very respectfully yours,

D. L. D. GRANGER,
City Treasurer.

Approved for $25,000.00 by the Joint Standing Committee on Finance.

J. W. ANGELL,
Chairman.

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ANNUAL REPORT

OF THE

CHIEF OF POLICE,

FOR THE YEAR

1897.

[Presented April 4, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

HEADQUARTERS POLICE DEPARTMENT, CITY HALL,
PROVIDENCE, R. I. January 1, 1898.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

GENTLEMEN: As required by custom and Chapter 39 of the City Ordinances, I have the honor to present herewith a detailed statement of the service rendered by the department under my command during the year ending December 31, 1897.

The maximum number of the force allowed by ordinance is 300. Of this number ten are on the superannuated list unable to perform regular police duty by reason of their infirmities, but are carried upon the pay roll with a compensation of four hundred dollars each per annum as a grateful acknowledgment of appreciation for long, faithful, and efficient service.

March 16, 1897, the honorable city government passed an ordinance whereby the police force might be increased not to exceed a chief and 300 officers. Under the provisions of this act twelve new officers were added, increasing the force from 275 to 287. With an estimated population of more than 150,000, we have a fraction less than two officers for each 1,000 of the population. The force covers 16¼ square miles of territory, and patrols 351 miles of streets.

The force is classified as follows:

1 chief,	7 lieutenants,
1 deputy chief,	16 sergeants,
7 captains,	5 detectives,

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1 superintendent of hacks,
1 assistant of superintendent.
1 clerk of police,
1 assistant clerk,
2 warrant officers,
1 property clerk,
1 superintendent of signal system,
1 office man at Station No. 1,
4 mounted men days,
6 mounted men nights,
45 patrolmen days,
178 patrolmen nights,
10 superannuated officers.
Total, 288.

APPOINTMENTS, SUSPENSIONS, AND WITHDRAWALS.

Number of officers January 1, 1897	273
Number of officers December 31, 1897	286
Appointed during the year	15
Reappointed after trial term of service	12
Deaths	2
Resignations	4
Removals	0
Suspensions	7

CAUSES OF SUSPENSION.

Conduct unbecoming an officer	1
Violation of Rule No. 92	4
Violation of Rule No. 89	1
Neglect of duty	1

DISPOSITION OF SUSPENDED CASES.

Fined and returned to duty with loss of pay during suspension	5
Resigned under suspension	2
Fined and not suspended	12

The following is a list of the names of superannuated officers each of whom are paid $400 per year:

1	Josiah Bennett	Age 79
2	Joseph W. Pratt	" 77
3	Theodore Rutherford	" 74
4	Lorenzo D. Prosser	" 63
5	James L. Sherman	" 56
6	Daniel T. Colwell	" 58
7	John B. Livsey	" 59
8	Thomas D. Topliff	" 58
9	John K. Tripp	" 62
10	Joseph B. Curtis	" 62

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During the year two of our oldest officers have died, viz. :

Alfred H. Gates, born 1832, died February 20, 1897.
George B. Lapham, born 1842, died August 4, 1897.

Mr. Gates was born in Worcester, Mass., and became a resident of this city during 1869; January 8, 1873, was appointed a member of this department, and served continuously as patrolman, until by reason of age and infirmities incidental to the trying and exacting duties of police service, he was placed on the superannuated list July 4, 1895, by order of the Board of Aldermen.

During the twenty-four years of his service in this department, Mr. Gates' general deportment was that of a conscientious officer in the performance of his duties, and, as a good citizen, commanded the respect of his associates in the department and of the neighbors in the community where he lived.

Mr. Lapham was born in the City of Providence in 1842, and was appointed a member of this department August 24, 1871. For twenty-six years he gave satisfactorily faithful patrol service until stricken with paralysis while on duty. He was a veteran of the civil war, and had been honored by his comrades of the Grand Army of the Republic by election to the Commandership of his Post, one of the largest posts in New England, in which his executive ability was much appreciated, and up to the hour of his death held important positions on various committees of his Post, and his ability was no less appreciated in the Police Department, as is attested by his elevation, step by step, to the Presidency of the Police Association, the highest position of honor in the gift of his associates of this department, and died in office while serving his third term as President. Mr. Lapham was held in high esteem not only by his associates in this department, but as well by the citizens on his beat, who recognized fully his faithful attention to duty in their interest, and appreciated his affable, courteous demeanor in all his dealings with them.

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The pay of patrolmen December 31, 1897, was as follows:

Number of men at $3.00 per day	173
" " " 2.75 "	47
" " " 2.25 "	18

During the year 56 members of the force have had their compensation increased as provided by chapter 48 of the ordinances.

DETECTIVE SERVICE.

Property to the amount of $30,343.56 has been reported stolen during the year 1897; of this amount $17,597.66 was recovered; $14,294.06 by the detectives, and $3,303.60 by the police.

Amount reported obtained by false pretense and embezzlement during the year, $553 50.

IMPORTANT ARRESTS MADE DURING THE YEAR.

Assault and battery	196
" with dangerous weapon	37
" " intent to kill	1
" " " to rob	5
Adulterated milk	33
Breaking and entering, day time	27
" " " night time	27
Burglary	6
Embezzlement	10
Forgery	4
Fugitives from justice	54
Gambling nuisances	5
Gambling	2
In possession of burglars' tools	7
Rum nuisances	54
Larceny from the person	15
" grand	42
" petty	234
" suspicion of	201
Murder	2
Manslaughter	1
Robbery	2
Writing policy lottery	2
Houses of ill-fame	28
Selling liquor, no license	12
Revelling	235
Total	1,184

and 7,290 others for minor offences.

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Among the 8,474 arrests of the year, perhaps none were more important than the seven charged with having burglars' tools in their possession, together with the two desperadoes captured in the town of Johnston and delivered to the authorities of Massachusetts, and are now serving sentences in the prison of that State, convicted of burglarious crimes of such a daring and desperate character as justly place them on the list of noted crooks and as the most dangerous of this class of criminals.

They were found by us to be extensively equipped for the holding up and robbery of people, burglary, and other serious crimes, and it is clearly evident to our minds that their arrest prevented a series of startling crimes in this city and vicinity, as some of them were identified as daring and notorious robbers, safe breakers, and desperadoes.

NUMBER OF ARRESTS FOR EACH MONTH OF THE YEAR.

January	497	July	804
February	595	August	798
March	677	September	792
April	810	October	620
May	875	November	607
June	749	December	650
Total			8,474

DRUNKENNESS.

The number of persons arrested for drunkenness during ten years is as follows:

1888	4,006	1893	4,951
1889	4,619	1894	4,549
1890	4,898	1895	4,892
1891	5,064	1896	5,143
1892	4,874	1897	5,164

NUMBER OF ARRESTS FOR EACH DAY OF THE WEEK.

Sunday	798	Thursday	1,159
Monday	1,056	Friday	1,158
Tuesday	1,238	Saturday	1,935
Wednesday	1,130		
Total			8,474

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ASSAULTS WITH DANGEROUS WEAPONS.

Pistol	6	Bottle	4
Knife	10	Piece of cement pipe	1
Razor	3	Club	3
Billy	1	Pitchfork	1
Cannon	1	Axe	2
Stone	4	Lamp	1

PROSECUTIONS UNDER THE LIQUOR LAW.

Liquor nuisances	40
Houses of ill-fame	27
Liquor sales	64
Keeping for sale	21

VACANT HOUSES.

During the summer months the cares and responsibilities of this department is largely increased by the absence of a large number of our citizens from their homes, who confide them to the watchful supervision of the police. Total number cared for during 1897, 904.

The very small number of such houses that have been entered by thieves, in proportion to the large number cared for, unmistakably attests the efficiency of the officers in this particular line of service.

VAGRANCY.

Forty-four arrests for vagrancy were made during the year. The system recently adopted of giving checks on the Overseer of the Poor for lodgings has relieved this department of a duty that had become extremely burdensome. For several years we have had to furnish lodging room for tramps in our stations — principally the Central Station — of an average each winter of more than three thousand applicants. Under the present system they are as much under the supervision of the police as during the existence of the old system.

SIGNAL SERVICE.

DISTRICT NO. 1.

Duty calls	105,850
Telephone calls	7,220
Wagon calls	1,868
Miles run	1,504

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DISTRICT NO. 2.

Duty calls	90,800
Telephone calls	10,885
Wagon calls	979
Miles run	1,181½

DISTRICT NO. 3.

Duty calls	59,231
Telephone calls	9,721
Wagon calls	594
Miles run	240¾

DISTRICT NO. 4.

Duty calls	86,400
Telephone calls	7,713
Wagon calls	1,071
Miles run	1,299

DISTRICT NO. 5.

Duty calls	68,240
Telephone calls	4,003
Wagon calls	751
Miles run	1,139

DISTRICT NO. 6.

Duty calls	61,006
Telephone calls	4,692
Wagon calls	479
Miles run	620¾

DISTRICT NO. 7.

Duty calls	56,070
Telephone calls	7,434

The wagon service of 4th district is used in 7th district. In addition to service shown in above tables the wagon in each district has responded to all fire alarms in their respective fire districts between the hours of 5.30 P. M. and 8 A. M., and this added to the large number of emergency calls, to which a ready response is given, would add largely to the amount of service rendered. Total number of duty calls, 527,687; telephone calls, 51,668; wagon calls, 5,742; miles run, 6,079.

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NUMBER OF EXTRA DUTY HOURS' WORK PERFORMED DURING 1897.

Station No. 1, number of hours	26,574
" " 2, " "	21,985
" " 3, " "	24,053
" " 4, " "	18,153
" " 5, " "	22,131
" " 6, " "	20,776
" " 7, " "	17,458
Total number of hours	151,130

Equal to 15,113 days' work of ten hours each, and an average of a fraction more than 54½ days' work for each of the 277 active members of the department.

NEWS BOYS AND BOOT BLACKS.

Four hundred and seventy news boys, and 150 boot black badges, or licenses, have been issued during the year; 620 in all. The following tables show the nationality of the 620 news boys and boot blacks:

NEWS BOYS.

United States	226	England	7
Russia	170	Sweden	5
Italy	19	Canada	5
Germany	8	Ireland	4
Austria	8	Nova Scotia	4
Roumania	4	Prussia	3
Norway	2	Scotland	3
Portugal	2		
Total			470

BOOT BLACKS.

United States	37	Austria	2
Russia	43	Armenia	2
Italy	44	Nova Scotia	1
Germany	12	Spain	1
Poland	4	Scotland	1
England	3		
Total			150

The strict enforcement of the rules governing the conduct of these boys when doing business on the streets of the city has reduced to a very great extent the number of complaints made against this class prior to the adoption of the license

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system by the Board of Aldermen. An effort has been made not to exceed the issuance of more than 600 badges, or licenses, as in my opinion that number is amply sufficient for the purpose. It will be observed that number has been exceeded during 1897, the excess having been issued to applicants whose parents were ill, or extremely poor, a number of which had been recommended by the Overseer of the Poor. During the year there has been thirty-one suspensions for violations of the rules, as follows:

Refusing to pay for papers sold	10
Selling with no badge in sight	6
Disorderly conduct	4
Profane and obscene language	5
General violation of rules, license revoked	4
Allowing another to use badge	1
Indecent conduct on the street	1
Total	31

DOG LICENSES.

Number of dogs licensed at this office during 1897, amount received therefor and paid to the City Treasurer, as per vouchers on file in this office, is shown in the following table :

5262 dogs licensed at $1.00 each	$5,262 00
667 " " " 5.00 "	3,335 00
346 " " " 2.00 "	692 00
89 " " " 6 00 "	534 00
6364 dogs, fees for licensing at 15 cents each	954 60
Total amount received	$10,777 60

The following table shows the earnings of the Police Department during 1897:

Fines, costs, and fees received at Police Court	$8,218 25
Fines and costs received at Providence County Jail	754 50
Officers' fees in Sixth District Court	7,005 05
Fees for registering dogs	967 65
Services of police at exhibitions	150 00
Sale of old metal, wire, etc	116 60
City of Springfield for services	7 52
Total amount earned	$17,219 77

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EXPENDITURES FOR FISCAL YEAR.

Salaries	$311,892 25
General account	23,107 67
Total	$334,999 92

EXPENDITURES FOR CALENDAR YEAR.

Salaries	$313,841 47
General account	21,900 16
Total	$335,741 63

PETITIONS TO THE BOARD OF ALDERMEN FOR LICENSE TO HOLD ENTERTAINMENTS.

For first class	1353	at	$ 1.00 each.
For second class	171	at	5.00 each.
For third class	1	at	10.00
Total number	1525		

Very careful attention has been given these applications for license to hold entertainments, and when there has been a doubt as to the character of the applicants a very thorough investigation has been instituted by the captains of districts where such applicants were located; failing to receive a favorable report of them, their applications were not recommended. By this course of procedure disreputable dances and entertainments are prevented.

In addition to the above mentioned petitions that have been carefully investigated, are those for license to keep swine, of private detectives, night soil removal, bowling alleys, intelligence offices, for sale of junk, for taverns and victualing, sale of gun powder and fire works, pawnbrokers, bagatelle, pool, and scippio tables, hacks, lunch wagons, and trucks.

In tables appended to this report the various offences of persons arrested during the year are classified, and also the annual reports of the Police Surgeon, Superintendent of Hacks, and Police Matron, and of other matters pertaining to the business of the department; also Secretary's state-

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ment of the receipts and disbursements and financial status of the Providence Police Association for year ending December 31, 1897.

Before closing this report I desire to present the following suggestions for the consideration of the gentlemen of the City Council that my experience during the past year seems to render necessary for a more efficient service by this department.

In consequence of the severe illness of His Honor Mayor McGuinness during the last part of his term of office, the roll of honor instituted by him by which particularly meritorious service by members of this department should receive official recognition, and be placed on record, was left incomplete, and is therefore omitted from this report.

I am impelled, by the need of more suitable facilities for the transaction of police business in the seventh district, to again suggest that a new station is very much needed. The station on Oakland street is inadequate in almost every respect, and especially so in its sleeping and guard room accommodations.

In my opinion it is imperatively necessary that an ordinance should be created that will require proprietors of shooting, or so-called pistol galleries, to be licensed, as this form of amusement is in many respects dangerous as well as annoying, and should be conducted, if at all, by men of judgment, and the business placed more under the control of the city officials, and a revenue derived from it.

Also an ordinance requiring so-called lodging houses to be licensed. Such an ordinance would place this business under the supervision of the police, and incompetent and unreliable persons could be prevented from opening up business, and the character of applicants for license could be thoroughly investigated.

The embarrassment occasioned by frequent failure to readily find such ordinances as relate to cases under our consideration for prosecution, renders it very necessary that there should be a new compilation of the ordinances author-

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ized, and ordered, as the present bound volume is, in many respects, unreliable, many of the ordinances having been repealed and new ones created.

I am pleased to report that there has been a very general desire manifested by the members of this department to do all that has been required of them, and a determined zeal shown in their efforts to maintain law and order. Under such conditions the enforcement of severe disciplinary methods has rarely been necessary during the year.

In closing, I offer the assurance of my thankful and grateful appreciation of the assistance rendered me by His Honor the Mayor, the gentlemen of the Police Committee, the members of the Honorable City Council, the Deputy Chief of Police, and all members of the Police Department for their hearty co-operation in the effort to maintain the reputation of the department as an efficient organization.

Respectfully submitted,

REUBEN R. BAKER,

Chief of Police.

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ANNUAL REPORT OF POLICE SURGEON.

REUBEN R. BAKER, ESQ., CHIEF OF POLICE:

SIR: I have the honor to submit the following report of my services as Police Surgeon for the year 1897:

During the year I have made 746 visits for inquiry, and for the examination of officers who have been reported sick or disabled, and have responded to 164 official calls by day, and 76 by night, for professional attendance upon officers reported sick or disabled on the streets or in stations, and upon sick, wounded, or insane police prisoners.

In addition I have examined all applicants for appointment on the force, and re-examined all appointees for confirmation, have made frequent inspection of the several police stations relative to their sanitary condition and keeping, and performed all the duties pertaining to the office of Police Surgeon.

During the year, 152 officers were reported sick or disabled, and the aggregate of their reported sickness was 1,698 days. Of the officers reported sick, the sickness of 72 continued from one to five days; 35 were sick from five to ten days; 19 from ten to twenty days; 10 from twenty to thirty days.

The aggregate sickness of the remaining 8 officers of the 152 reported sick or disabled during the year, was 815 days, or nearly one-half the sickness of the year, and left as the balance, only 883 days as the sickness of 144 officers, or an average of about six days of sickness to each officer.

The loss in days service to the department for the year by the absence of officers reported sick was 1.6 per cent. of the total days service of the force of 284 men, and was equal to 4.6 officers being daily on the sick list.

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The extent of the reported sickness for the year compares favorably with the reported sickness of the six preceding years, due allowance being made for the increase of the force. And I no not see how, under the present method of thorough and competent examination of applicants for police service, and the re-examination of appointees after a probation service, and the daily visit of the Police Surgeon to all the officers reported sick, the inevitable sickness of a force of men exposed daily and by night to the inclemency of the seasons, and to the unusual temptations and dangers consequent upon police service can be much further reduced. But if a further reduction of the annual sickness can be attained, it must come, in my opinion, through a consideration of the morals, pleasures, and comforts of the officers, in more freely granting leaves of absence for one or two days for rest and recreation, and in providing further accommodations at the stations for the sanitary and social comforts of the men.

The diseases which caused the sickness of the year were those incident to the service and its exposures — the summer diarrhœas, and the winter colds. No epidemic or single case of continued fever has prevailed during the year with the force.

The janitor service and keeping of the several police stations has, with one exception, been fairly good during the year, and in some stations improved over former years. In Stations 6 and 7 increased dormitory accommodations should be provided without further delay.

The decedents of the force during the year have been two. Alfred W. Gates, age 65, died February 20, 1897, of paralysis; George B. Lapham, age 55, died August 4, 1897, of paralysis.

WILLIAM H. PALMER, M. D.,

Police Surgeon.

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ANNUAL REPORT OF THE SUPERINTENDENT OF HACKS.

OFFICE OF THE SUPERINTENDENT OF HACKS,
CITY HALL, PROVIDENCE, R. I.,
January 1, 1898.

REUBEN R. BAKER, ESQ., CHIEF OF POLICE:

DEAR SIR: I herewith present a detailed report of the business of this office during the year 1897. Within this time I have issued the following classified licenses, viz.:

PAID LICENSES.

36 Lunch Carts	at $50.00	each		$1,800 00
681 Wagons	" 1.00	"		681 00
218 Carts	" 1.00	"		218 00
177 Hacks	" 1.00	"		177 00
124 Low Gears	" 1.00	"		124 00
43 Drivers	" 1.00	"		43 00
41 Lumber Reaches	1.00	"		41 00
1320 paid licenses.	Total amount paid			$3,084 00

FREE LICENSES.

3881 Wagons	70 Lumber Reaches.
298 Carts	105 Low Gears.
Total number of licenses issued	5674

Besides attending to my duties in regard to unlicensed vehicles and investigating all complaints against hackmen and expressmen that have been brought to my notice, I have set the city flags (12) twelve times. I have also attended amusements, weddings, and receptions, where a large number of carriages had been ordered, and have performed such other duties as the Mayor, Chief, and Deputy Chief of Police have required of me.

Respectfully submitted,

GEORGE H. NORCROSS,
Superintendent of Hacks.

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ANNUAL REPORT OF THE POLICE MATRONS.

REUBEN R. BAKER, ESQ., CHIEF OF POLICE:

SIR: I herewith submit the following statement of duties in this department of police service for the year ending December 31, 1897.

Nine hundred and four women (904), arrested by the police, have been placed in our charge. The condition of many of these poor creatures was pitiable in the extreme, and powerful illustrations of the degrading influence of intoxicating liquors upon such human beings as succumb to the appetite for them.

Many of these women, in their earlier lives, have been under Christian home influences, and fully realize the depth of degradation into which they have fallen, but are powerless to resist the craving desire for drink. In our desire to better the condition of these unfortunates we endeavor to awaken an interest for them in the minds of philanthropic people in our midst. It is extremely satisfactory to note that there is an organized effort to reclaim these fallen women, among whom are many young girls.

I can not refrain making mention in this report of the humanely-efficient service in this particular line of charitable work that is constantly being rendered by the Providence Rescue Home. The late Superintendent, Miss Phillipbar, (now at Macon, Georgia), and her successor, Miss Denehey, have, regardless of weather conditions, attended the morning sessions of the police court, to care for, and if possible, reclaim from the error of their ways, such of the female prisoners as were homeless and friendless, and to provide for their well being. Many of the young girls, arrested for the

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first time, we have taken to our quarters, rather than consign them to the companionship of the older ones in sin, and cared for them until their friends could be communicated with. Letters and visits from such, furnish strong evidence of their appreciation for such kindly service and interest in their welfare.

Contributions of worn and discarded clothing are solicited, so that we may provide for those that are brought to us half clad in the severely cold weather of winter.

In conclusion we desire to thankfully acknowledge encouraging assistance from the Rescue Home, Women's Christian Union, and the members of the Police Department.

Respectfully submitted,

M. J. TILLINGHAST, *Matron,*
ELLEN MILLS, *Asst. Matron.*

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ORGANIZATION OF POLICE DEPARTMENT.

DECEMBER 31, 1897.

Headquarters, City Hall.

CHIEF OF POLICE.
REUBEN R. BAKER.

DEPUTY CHIEF OF POLICE.
PATRICK EGAN.

CLERK OF POLICE.
WILLIAM GARDINER.

ASSISTANT CLERK.
ABEL C. T. WHEELER.

SUPERINTENDENT OF HACKS.
GEORGE H. NORCROSS.

ASSISTANT SUPERINTENDENT OF HACKS.
JOHN R. FEELEY.

CHIEF OF DETECTIVES.
PATRICK PARKER.

DETECTIVES.
JAMES O. SWAN, SILAS L. W. MERRILL,
PETER B. CANNON, ALBERT E. NICKERSON.

DAY SERGEANT.
BENJAMIN T. WHITE.

WARRANT OFFICERS.
EDWIN R. JONES, ISAIAH LONG.

PROPERTY CLERK.
STEPHEN F. BLANDING.

CITY MESSENGER'S DEPARTMENT.
JOHN W. POINIER.

POLICE MESSENGER.
CLARENCE E. VAUGHAN.

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FIRST STATION.

Station House on Fountain Street.

FRANK A. MATTHEWS, *Captain.*
CONSTANT S. HORTON, *Lieutenant.*

SERGEANTS.

WILLIAM H. ROWE, EDWARD J. SMITH,
THOMAS D. TYLER.

SUPERINTENDENT OF SIGNAL SYSTEM.

NATHAN M. RUSSELL.

DAY PATROLMEN.

Frank H. Anthony,
Charles B. Baird,
Richard A. Clark,
George M. Chace,
Thomas J. Hanley,
Andrew P. Martin,
Francis H. Morton,
Frank L. Martin,
William F. O'Neil,
William N. Sherman,
John V. Simonds,
Nahum Willard,
Malvin P. Bates.

NIGHT PATROLMEN.

James Ahearn, Jr.,
Arthur P. Butts,
Chester H. Blood,
Charles A. Bennett,
Frank E. Blake,
Clarence W. Case,
James J. Costigan,
Edward Dorsey,
Cornelius J. Dunn,
Thomas J. Duffy,
James F. Feeney,
Patrick J. Fanning,
John H. Hannifan,
William W. Huntley,
Thomas W. Jacobs,
James A. Lee,
Michael J. Luby,
James J. Lyons,
John H. Martin,
James H. Moffitt,
William F. Monroe,
Edward J. McDonnell,
Gilbert H. Norton,
William A. O'Brien,
Edward J. Robinson,
Arthur B. Rose,
Louis H. Streeter,
George R. Waterman,
Thomas Wolf.

SECOND STATION.

Station House corner Chalkstone Avenue and Ashburton Street.

EUGENE STEVENS, *Captain.*
JOHN A. MURRAY, *Lieutenant.*

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SERGEANTS.

HUGH D. ROBBLEE, JOHN B. HARTNETT.

DAY PATROLMEN.

George W. Boss,
William Gilfoil,
William F. Hayden,
John F. Mathewson,
Edmund J. Munroe,
Murdock C. McKenzie,
George F. Nye.

NIGHT PATROLMEN.

Fred H. Blackman,
William H. Briggs,
Thomas J. Curley,
James L. Coyle,
William L. Doe,
Joseph H. Dowling,
James J. Doyle,
Joseph R. Edwards,
James A. Flynn,
Charles E. Fort,
William A. Gillen,
Everett Hall,
Thomas L. Hunt,
John H. Hennessey,
George Irwin,
Thomas F. Kavanagh,
William C. Koch,
Charles M. Kirby,
Thomas H. Little,
Francis H. Luby,
Thomas J. McCartin,
Patrick J. McElroy,
Joseph McGroarty,
John T. McGirl,
Thomas F. McGovern,
Dennis McCarthy,
Howard S. Paine,
Thomas Reynolds,
Arthur D. Sharpe,
Edward M. Whipple.

THIRD STATION.

Station House on Wickenden Street.

PATRICK J. MAGILL, *Captain.*
EDWARD O'NEIL, *Lieutenant.*

SERGEANTS.

WILLETT E. POTTER, PETER F. GILMARTIN.

DAY PATROLMEN.

Mathew F. Fitzpatrick,
Welcome U. Foye,
Thomas Harvey,
Joshua A. Nickerson,
John J. Toole,
Job S. Yeaw.

NIGHT PATROLMEN.

Joseph A. Arnold,
James Ash,
Skinner A. Collier,
William H. Conlon,
John Conaty,
William Dolan,
Charles W. Darling,
Joseph N. Flynn,

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James Fay,
William H. Gale,
Peter H. Galligan,
Michael E. Kelley,
John Linehan,
John F. Lyons,
Charles Mayno,
John F. McGovern,
Thomas L. Nolan,
John J. O'Malley,
Francis O'Connor,
Stephen Ryan,
Thomas Rooney,
James J. Riley,
John H. Sheehan,
John J. Sullivan,
William F. Scanlan,
Claude B. Tidd,
Willard I. Turner,
John W. Ward,

FOURTH STATION.

Station House on Knight Street.

JOSEPH MARSTON, *Captain.*
FREDERICK A. RANKIN, *Lieutenant.*

SERGEANTS.

A. FRANK MOWRY,
MAYNARD L. STONE.

DAY PATROLMEN.

Owen E. Breheney,
Luther C. Bugbee,
Owen King,
Peter F. Duffy,
Ralph E. Gifford,
William A. Munro.

NIGHT PATROLMEN.

John H. Armstrong,
Otis W. Baker,
Herbert C. Blood,
Louis H. Bartlett,
Edward D. Coakley,
Eugene F. Dailey,
Frederick A. Daniels,
William H. Ferguson,
George J. Gammill,
Charles B. Gorey,
Peter Gormley,
Hyman G. Goldsmith,
Richard Gamble,
Peter H. Healy,
Thomas Hopkins,
Joseph G. Handy,
Francis P. Johnson,
Andrew J. Kennedy,
Alfred S. Keach,
Charles McSoley,
Hart B. Pierce,
Frederick E. Reed,
Michael Reynolds,
Warren M. Smith,
Albert E. Wixon,
William M. Wyman.

FIFTH STATION.

Station House corner of Plain and Borden Streets.

JEREMIAH COSTINE, *Captain.*
WILLIAM H. LAWRENCE. *Lieutenant.*

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SERGEANTS.

JOSEPH A. PROUT, LEROY T. BENNETT.

DAY PATROLMEN.

Julius B. Alfred,
William E. Bowen,
William Bradbury,
Robert M. Connors,
Cornelius Daly,
Michael Griffin,
Chandler B. Robinson.

NIGHT PATROLMEN.

Edward W. Baker,
Hartley W. Brown,
Alonzo J. Brown,
Patrick Blessing,
James M. Cannon,
Michael Conlon,
George N. Cobb,
Michael J. Cunningham,
Frank Di Grado,
John Gallagher,
Thomas E. Kane,
Thomas J. Kiley,
William S. Kent,
Walter S. Keene,
Neil J. MacDonald,
Bradford G. Niles,
William F. O'Brien,
William H. Place,
Owen Rice,
Samuel D. Sessions,
Thomas J. Smith,
Frank Schiller,
John F. Toole,
J. Henry Wilbur,
Thomas A. Wallace,
Herbert M. Willard.

SIXTH STATION.

Station House on Chaffee Street.

WILLIAM H. LEAVITT, *Captain.*
GEORGE H. DARY, *Lieutenant.*

SERGEANTS.

WILLIAM P. WHIPPLE, HENRY F. MORSE.

DAY PATROLMEN.

Timothy T. Arnold,
John N. Dyer,
Frank M. Miller,
James P. McLaughlin,
Patrick A. Sullivan.

NIGHT PATROLMEN.

Hiram Allen, 3d,
Joseph M. Ahern,
Patrick Devine,
Elden W. Doe,
Patrick H. Dulin,
Frederick G. Dietz,
James Feeley,
Martin P. Feeney,
Patrick J. Feeney,
Marcelle Hannon,
James Kelleher,
Edward McGuire,

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Henry H. Place,
Isaiah B. Sherman,
John H. Smith,
Joseph E. Stockley,
Jeremiah H. Shea,
Charles A. Tanner,
Algernon S. Tucker,
George A. Wyman,
Albert N. White,
Julius A. Webb,
Charles S. Young.

SEVENTH STATION.

Station House corner Burnett and Public Streets.

WILLIAM H. CORY, *Captain.*
JAMES P. SCOTT, *Lieutenant.*

SERGEANTS.

SAMUEL W. THOMAS, GEORGE A. CLARK.

DAY PATROLMEN.

Alexander Charnley,
Hiram Hart,
John F. Muldoon,
Patrick McGuire,
William E. Poinier.

NIGHT PATROLMEN.

P. Joseph Burns,
William W. Chace,
Everett M. Corey,
Thomas E. Darcey,
Francis E. Dunlavey,
Frank P. Day,
Bernard J. Fay,
Duty J. Greene,
Charles E. Holland,
Jason W. Harvey,
John T. Haran,
Thomas F. Jones,
Patrick J. Kearns,
Charles T. Kennedy,
Dennis F. Mahoney,
John J. McCaffrey,
George W. Stewart,
Charles E. Smith,
Charles H. Streker,
Edward J. Tiernan.

SUPERANNUATED OFFICERS.

Josiah Bennett,
Daniel T. Colwell,
Joseph B. Curtis,
John B. Livsey,
Joseph W. Pratt,
Lorenzo D. Prosser,
Theodore Rutherford,
James L. Sherman,
Thomas D. Topliff,
John K. Tripp.

EMPLOYEES.

Clarence E. Vaughan, messenger.....Headquarters.
Aaron W. Clark, Engineer.....Station No. 1.
Isaac B. Mosby, janitor..... " " 1.
Mary J. Tillinghast, matron..... " " 1.

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Ellen Mills, matron	Station No.	1.
James J. Morrally, hostler	" "	1.
Everett C. Bliss, patrol wagon driver	" "	1.
Hugh Maines, " " "	" "	1.
Lewis C. Leighton, pole climber, signal service	" "	1.
Hugh A. McManus, batteryman	" "	1.
Charles B. Luther, janitor	" "	2.
Alfred J. Crowell, patrol wagon driver	" "	2.
Frank McGair, " " "	" "	2.
Frank McManus, janitor	" "	3.
Walter B. Horr, patrol wagon driver	" "	3.
George W. Lovell, " " "	" "	3.
George H. Simms, janitor	" "	4.
Charles W. Higgins, 2d, patrol wagon driver	" "	4.
James E. Johnson, " " "	" "	4.
Thomas R. Potter, janitor	" "	5.
Thomas E. Colton, patrol wagon driver	" "	5.
Silas A. Smith, " " "	" "	5.
Patrick J. Lannon, janitor	" "	6.
Charles Burrows, patrol wagon driver	" "	6.
John J. Giblin, " " "	" "	6.
Edward B. Macklin, janitor	" "	7.

The following tables exhibit the number of arrests, nativity of persons arrested, and the various offences for which they were committed:

Total number of arrests	8,474
" " males	7,570
" " females	904
" " foreigners	2,868
" " non-residents	2,122
" " minors	1,026
" " committments	7,978
" " arrested on warrants	609

NATIVITY OF PERSONS ARRESTED.

United States, white	5,301	Finland	3
" " colored	305	Germany	87
Austria	1	Greece	4
Armenia	12	Hungary	5
Arabia	1	Hebrews	1
Canada	80	Ireland	1,535
China	12	Italy	234
Denmark	4	Jews	21
England	370	New Foundland	3
Egypt	1	Nova Scotia	35
France	80	New Brunswick	4

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Norway	12	Switzerland	2
Poland	30	Scotland	90
Portugal	14	Turkey	2
Russia	50	Western Islands	1
Roumania	1	Wales	2
Sweden	171		
Total			8,474

CAUSES OF ARREST, 1897.

Abandoning child	2	Forgery	4
Assault and battery	196	Fornication	16
Assault with dangerous weapon	37	Fugitives from justice	54
Assault, indecent, on girl	1	" " state home	0
Assault with intent to kill	1	" " work house	2
Assault with intent to rape	1	Forgery, suspicion of	0
Assault with intent to rob	5	Gambling	2
Adultery	5	Houses of ill fame	27
Bastardy	4	Hotel fraud	1
Breaking and entering, night	27	Injury to buildings	7
Breaking and entering, day	27	Insane persons	70
Breaking and entering, suspicion of	0	Keeping liquor for sale	4
Burglary	6	Keeping eating house, no license	0
Bathing without clothing	1	Keeping unlicensed dog	3
Bicycle riding on sidewalk	1	Larceny from person	15
Cruelty to animals	17	Larceny, grand	42
Common drunkards	4	Larceny, petty	234
Concealed weapons	1	Larceny, suspicion of	201
Common brawlers	1	Lewd and wanton	64
Creating false alarm	2	Malicious mischief	40
Capias	2	Murder	2
Delirium tremens	3	Manslaughter	1
Discharging fire arms in street	7	Minors smoking cigarettes	1
Disorderly persons	52	Night walking	49
Disorderly house	0	Non-support of family	23
Disturbing religious meeting	0	Not sending child to school	0
Drunkenness	5,164	Obstructing sidewalk	1
Driving off team	2	Obstructing officer	2
Defacing building	2	Practicing medicine unlawfully	7
Embezzlement	10	Playing cards Sunday	14
Evading fare	0	Refusing to obey order of the Board of Aldermen	1
Exposing person	7	Receiving stolen goods	1
Entering dwelling night time to steal	1	Revelling	235
Entering store day time and larceny	0	Robbery	1
Evading payment for food	2	Rum nuisance	54
False pretenses	3	Railer and brawler	6
Fast driving	16	Selling cigarettes to minors	1
		Selling milk, not registered	1

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Safe keeping	53	Sturdy beggars	53
Selling adulterated milk	35	Suspicious persons	1,304
Selling liquor without license	12	Taking growing fruit	2
Selling liquor in violation of druggists' license	1	Truancy	78
Selling fireworks, no license	1	Throwing stones in street	7
Selling inflammable fluid	1	Vagrancy	44
Selling diseased meat	1	Violation of city ordinances	70
Shop open after 12 M	2	Writ of attachment	4
Shop open Sunday	2	Writing policy	1
Setting fires,	0	Total	8,474
Stubborn children	7		

In addition to the above specified table of arrests the following additional cases have been prosecuted:

Common drunkards	105	Illegal sales of liquor	64
Keeping liquor for sale	21	Common nuisance	1
Gambling nuisance	5	Carrying concealed weapons	29
Highway robbery	1		

The following table exhibits the comparative causes of arrests for three years:

	1895.	1896.	1897.
Abandoning child	0	1	2
Assault and battery	185	231	196
" with dangerous weapon	17	42	37
" " intent to kill	1	0	1
" " " " rape	0	0	1
" indecent on girl	0	0	1
Adultery	8	0	5
Bastardy	11	3	4
Breaking and entering, day time	7	12	27
" " " night time	39	63	27
" suspicion of	1	2	0
Burglary	2	2	6
Building bonfire in street	0	1	0
Bathing without clothing	1	0	1
Blacking boots, no license	1	0	0
Bicycle riding on sidewalk	0	0	1
Cruelty to animals	14	25	17
Carnal knowledge of girl 16 years of age	0	1	0
Common drunkards	3	3	4
Concealed weapons	1	2	1
Common brawlers	0	0	1
Capias, on	0	2	2

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	1895.	1896.	1897.
Creating false fire alarm	0	0	2
Common night walkers	36	46	49
Common gamblers	0	2	0
Common nuisance	1	0	0
Disorderly house	3	1	0
" persons	40	32	52
Disturbing religious meeting	3	3	0
Discharging fire arms in street	7	14	7
Delirium tremens	0	1	3
Detained	3	4	0
Defacing building	9	6	2
Driving off team	0	3	2
Disturbing public schools	4	0	0
Drunkenness	4,892	5,143	5,164
Embezzlement	14	8	10
Evading fare	1	2	0
Exposing person	13	7	7
Entering dwelling and larceny	0	6	0
Entering store and larceny	0	3	0
Evading payment for food	0	1	2
False pretence	5	3	3
Fast driving	10	32	16
Forgery	1	7	4
Fornication	12	21	16
Fugitives from justice	35	58	54
" " State home	0	1	0
" " reform school	2	1	0
" " work house	9	2	2
" " State insane asylum	0	1	0
Forgery, suspicion of	0	1	0
Gambling	7	4	2
Houses of ill fame	19	24	27
Hotel frauds	0	0	1
Highway robbery	1	5	0
Illegal voting	1	1	0
Incest	0	0	0
Injury to buildings	4	2	7
Insane persons	46	44	70
Keeping eating house, no license	0	1	0
Keeping unlicensed dog	0	3	3
Keeping liquor for sale	5	0	4
Larceny from person	8	7	15
" grand	43	50	42
" petty	282	272	234
" suspicion of	142	127	201
Lewd and wanton	40	62	64
Malicious mischief	17	17	40
Murder	1	1	2
Manslaughter	0	3	1
Minors smoking cigarettes	0	0	1

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	1895.	1896.	1897.
Not sending child to school	0	2	0
Non-support of family	23	17	23
Obstructing sidewalk	0	1	1
Obtaining goods fraudulently	1	0	0
Obstructing officer	2	1	2
Perjury	1	0	0
Practicing medicine unlawfully	0	2	7
Playing ball Sunday	3	15	0
Playing cards Sunday	0	0	14
Running away from Orphan Asylum	0	1	0
Refusing to obey order of the Board of Aldermen	1	2	1
Receiving stolen goods	2	5	1
Revelling	139	200	235
Robbery	0	2	1
Running away from home	1	0	0
Rum nuisance	47	47	54
Railing and brawlers	8	8	6
Selling cigarettes to minors	0	0	1
Selling tickets on street	2	0	0
Selling adulterated milk	3	15	35
Selling liquor without license	33	29	12
Selling obscene prints	0	1	0
Safe keeping	34	64	53
Shoplifting	0	2	0
Setting fires	0	1	0
Stubborn children	12	12	7
Sturdy beggars	40	59	53
Suspicious persons	555	914	1,304
Sleeping out	7	0	0
Selling liquor in violation of druggists' license	0	0	1
Selling fire works, no license	0	0	1
Selling inflammable fluid	0	0	1
Selling diseased meat	0	0	1
Selling milk, not registered	0	0	1
Shop open after 12 M	1	0	2
Shop open Sunday	0	0	2
Taking growing fruit	4	6	2
Truancy	63	94	78
Throwing stones in street	1	2	7
Threats	1	0	0
Vagrancy	58	60	44
Violation of city ordinances	59	71	70
" " hack "	3	2	0
" " health "	1	2	0
" " nuisance law	1	0	0
" " U. S. postal law	1	0	0
" " screen law	0	0	0

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	1895.	1896.	1897.
Violation of Sunday law	0	2	0
" " medical law	0	4	0
Writ of attachment	3	5	4
Writing policy	0	0	1
Witnesses detained	0	2	0
	7,117	8,073	8,474

The following table exhibits an abstract of the miscellaneous duties performed by the police in addition to the number of arrests :

Accidents reported	634
Breaking and entering reported	107
Attempts to break and enter prevented	25
Burglaries reported	18
Entering dwellings reported	3
Cows and horses driven to pound	29
Dead bodies reported	68
Dangerous bridges reported	6
Defective sewers	14
Disturbances suppressed	1,299
Defective lamps	3,138
Drains, vaults, and nuisances reported	76
Fire alarms given	203
Fires extinguished without an alarm	112
Injured persons provided for	102
Intoxicated persons helped home	5
Larcenies reported	1,703
Lights out in stores usually left lighted	28
Lights hung on obstructions	1,231
Lost children restored	227
Missing persons reported	141
Rescued from drowning	3
Robberies reported	16
Runaway horses stopped	61
Runaway horses reported	151
Sidewalks reported for repairs	443
Stores found open and secured	2,134
Stray teams put up	125
Street obstructions reported	287
Suicides prevented	3
Suicides reported	1
Violation of building law reported	1
Water running to waste, owners notified	38

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The following table exhibits the comparative miscellaneous business for three years:

	1895.	1896.	1897.
Accidents reported	611	604	634
Attempts to break and enter, reported	26	30	107
Attempts to break and enter prevented	26	30	25
Burglaries reported	9	10	18
Entering dwellings reported with intent to steal	0	0	3
Cows and horses driven to pound	24	37	29
Dead bodies	36	51	68
Dangerous bridges reported	8	4	3
Defective sewers	30	33	14
Disturbances suppressed	1,522	1,448	1,299
Defective lamps	7,538	8,339	3,138
Drains, vaults, and nuisances reported	140	74	76
Fire alarms given	173	207	203
Fires extinguished without alarm	94	120	112
Injured persons provided for	98	76	102
Intoxicated persons helped home	6	4	5
Larcenies reported	1,610	1,651	1,703
Lights out in stores usually left lighted	44	38	28
Lights hung on obstructions	2,686	1,991	1,231
Lost children restored	183	222	227
Missing persons reported	112	131	141
Rescued from drowning	5	5	3
Robberies reported	27	9	16
Runaway horses stopped	49	62	61
Runaway horses reported	181	193	151
Sidewalk reported for repairs	994	364	443
Stores found open and secured	2,386	2,348	2,134
Stray teams put up	79	109	125
Street obstructions reported	609	331	287
Suicides prevented	1	4	3
Suicides reported	2	1	1
Violation of building law reported	3	0	1
Water running to waste, owners notified	71	46	38

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Amount paid the State for maintaining prisoners in jail during the year 1897:

January	$167 57	July	$42 86
February	82 57	August	78 86
March	32 57	September	140 57
April	37 43	"	137 71
May	63 43	November	99 43
June	67 43	December	57 72
Total			$1,018 15

Expenses of Police Department for fiscal year ending September 30, 1897:

SALARIES.

Chief	$2,250 00
Deputy Chief	1,550 00
Captains	8,872 50
Lieutenants	7,953 25
Sergeants	17,983 27
Detectives	6,843 55
Police Surgeon	1,200 00
Clerks	4,468 25
Superintendent of Hacks	1,186 25
Warrant Officers	1,881 00
Messenger	312 86
Matrons	1,099 74
Hostler	730 00
Batterymen and linemen	1,438 68
Engineer	912 50
Patrol Drivers	8,760 00
Janitors of the several stations	4,306 47
Superannuated men	4,188 45
Police Justices	2,000 00
Patrolmen	233,952 48
Total for salaries	$311,892 25

GENERAL ACCOUNT.

Gas	$3,840 06
Signal service and telephone lines	3,404 81
Coal	2,868 68
Barn expenses	2,678 76
Board of prisoners at Providence County Jail	1,101 43
Postage, printing, stationery, etc	964 31
Amount carried forward	$14,858 05

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Amount brought forward	$14,858 05
Hardware, tools, and supplies	892 66
Water	832 60
Horses	815 15
Miscellaneous	601 95
Food for prisoners	596 05
Horse shoeing	594 87
Transportation to state institutions	442 40
Cost of cases discontinued in Sixth District Court	412 25
Wreaths, buttons, figures, belts, etc	399 73
Recovering stolen property	357 99
Wagons, repairs, etc	356 09
Electric lights, Station No. 1	300 65
Harnesses, repairs, etc,	234 98
Furniture, repairs, etc	189 60
Veterinary surgeons and dentist	160 50
Ice	127 75
Telegraph, telephone messages, expressage, etc	98 15
Treatment for delirium tremens, Rhode Island Hospital	98 00
Wood	97 50
Directories	96 65
Revolvers, repairs, etc	94 10
Medical attendance, Providence County Jail	75 00
Laundry work	59 97
National flags, repairs, etc	50 20
Expense of Chief of Police attending National Association of Chiefs of Police, City Council Resolution 184, series of 1897	50 00
Expense of police committee investigations	46 80
Bedding	35 70
Photographs of criminals	33 50
Medical attendance in emergency cases	25 00
Care of horse belonging to a person arrested and convicted	22 85
Witness fees	22 20
Type writing	10 75
Lunches	10 50
Posting dog license notices	4 13
Carriage hire	4 00
Total general account	$23,107 67
Total salaries	311,892 25
Total expenses	$334,999 92

EXPENSES FOR CALENDER YEAR 1897.

Salaries	$313,841 47
General Account	21,900 16
Total	$335,741 63

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The following table exhibits the detective statistics for three years:

	1895.	1896.	1897.
Whole number of burglaries reported	9	10	18
Whole number of larcenies reported	1,610	1,651	1,703
Amount of property reported stolen	$39,705 79	$34,171 21	$30,343 56
Amount of stolen property recovered	12,263 04	23,729 41	17,597 66
Amount recovered by detective force	9,508 85	21,430 06	14,294 06
Recovered by regular force	2,754 19	2,299 35	3,303 60

The following table indicates the earnings of the department for the year ending September 30, 1897:

Fines and costs received in police court	$8,218 25
" " " at county jail	754 50
Officers fees in sixth district court	7,005 05
Fees for registering dogs	967 65
Services of police at exhibitions	150 00
Sale of old metal, wire, etc	116 60
City of Springfield, Mass., for services	7 72
Total amount earned	$17,219 77

DEPARTMENT EMPLOYEES.

Number of department employees, their classification and compensation, will be found in the following table:

1 batteryman	$10 00 per week.
1 pole climber	2 75 per day.
12 patrol wagon drivers	2 00 each per day.
1 hostler	2 00 per day.
1 engineer	2 50 per day.
5 janitors	1 64 each per day.
1 janitor, including assistant	2 61 per day.
1 janitor	6 92 per week.
1 messenger	10 00 per week.
1 police matron	11 50 per week.
1 assistant matron	8 75 per week.

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Estimated value of the movable property in use at police headquarters, the several police stations, and Rhode Island Hospital:

Police headquarters	$181 11
Station No. 1	2,273 85
Signal system	4,150 00
Stable	2,257 35
Station No. 2	1,896 68
Signal system	6,400 00
Stable	1,404 75
Station No. 3	2,048 30
Signal system	5,384 60
Stable	532 75
Station No. 4	1,962 35
Signal system	8,076 91
Stable	971 50
Station No. 5	1,721 27
Signal system	10,000 00
Stable	562 45
Station No. 6	1,639 76
Signal system	5,750 00
Stable	1,110 56
Station No. 7	862 64
Signal system	6,688 46
Rhode Island Hospital	2,404 56
Total value	$68,299 75

AT RHODE ISLAND HOSPITAL.

Property purchased under authority of City Council Resolution No. 31, series of 1892, and transferred to Rhode Island Hospital, — (see report of Joint Standing Committee on Police, No. 349, series of 1892), — viz.:

3 horses	$695 00
1 set of double harness	180 00
2 single harnesses	250 00
2 ambulances	1,050 00
5 stretchers	13 83
12 blankets for ambulances	39 00
2 uniform caps	6 70
Horse blankets, stable tools, supplies, etc	170 03
Total	$2,404 56

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REPORT

OF THE

PROVIDENCE POLICE ASSOCIATION

For the year ending December 31, 1897.

OFFICERS.

EDWARD J. SMITH,	President.
PETER F. DUFFY,	Vice-President
STEPHEN F. BLANDING,	Secretary.
CONSTANT S. HORTON,	Treasurer.

DIRECTORS.

JAMES O. SWAN,
CHARLES B. BAIRD,
EDWARD M. WHIPPLE,
MARTIN P. FEENEY,
HERBERT C. BLOOD,
EDWARD W. BAKER,
HIRAM ALLEN, 3D,
JOHN J. McCAFFREY.

FINANCE COMMITTEE.

WILLIAM GARDINER,
RICHARD A. CLARK,
ABEL C. T. WHEELER.

ENTERTAINMENT COMMITTEE.

PATRICK EGAN,
JAMES J. COSTIGAN,
JAMES A. FLYNN,
MATTHEW. F. FITZPATRICK,
FREDERICK A. RANKIN,
SAMUEL D. SESSIONS,
ISAIAH B. SHERMAN,
DENNIS F. MAHONEY.

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RECEIPTS.

Amount on hand January 20, 1897		$31,498 40
Net proceeds of annual ball	$3,358 30	
Interest on dividends	953 97	
Donations	6 80	
Dues, assessments, fines, etc	1,836 50	
Admission fees	165 00	
		6,320 57
		$37,818 97

EXPENDITURES.

Paid sick benefits	$2,486 42	
Paid for nurse to sick officer	27 00	
Paid miscellaneous expenses	310 20	
Paid death benefits	3,000 00	
		$5,823 62
Amount invested and in treasury January 20, 1898.		$31,995 35

PELEG W. GARDINER FUND.

Amount in treasury January 20, 1897	$1,080 31	
Dividends and interest	28 92	
Amount on hand January 20, 1898		$1,109 23

HENRY J. STEERE FUND.

Amount in treasury January 20, 1897	$2,560 70	
Dividends and interest	103 42	
Amount on hand January 20, 1898		$2,664 12

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SEVENTH ANNUAL REPORT

OF THE

PARK COMMISSIONERS

FOR THE YEAR

1897.

[Presented April 7, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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Board of Park Commissioners.

RICHARD H. DEMING, *President.*

FRANK F. OLNEY, EDWIN D. McGUINNESS.

FRANK H. HARCOURT, *Secretary.*

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REPORT.

OFFICE OF THE PARK COMMISSIONERS,
CITY HALL, PROVIDENCE, R. I.

TO HIS HONOR THE MAYOR AND MEMBERS OF THE CITY COUNCIL.

In conformity with the city ordinances requiring the Commissioners of Parks to annually report to your honorable body, the following statement of improvements, expenditures, receipts, and donations is respectfully submitted:

During the past year improvements have been made at the various parks as follows:

BLACKSTONE BOULEVARD PARKWAY.

A resolution of the City Council making an appropriation for the purpose of improving the Parkway was approved August 20th, 1897. The work was commenced as soon as the plans were in readiness, and nearly two hundred men and teams were employed for several months. The area of the parkway from Irving Avenue to Rochambeau Avenue, comprises about ten acres. A large part of the material required for this improvement was obtained upon the parkway itself. Several of the adjacent streets were brought to grade to provide the remainder. The trees found growing here, consisting largely of oak and maple, having been preserved as far as possible. Good progress has been made on this work, the grading being nearly finished. A small section near Rochambeau Avenue and the tract south of Irving Avenue, which was not included in the original plan, are

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still unfinished. Owing to the lateness of the season when work commenced only a small portion has been seeded. The planting of the trees and shrubs and seeding, with the grading of the two small tracts just mentioned will complete this portion of the parkway. A small appropriation will be necessary for this work.

DAVIS PARK.

This park including the addition made to it during the past summer embraces nearly forty acres, the larger part of which was improved several years since. An appropriation of $26,000 was made in October for the purpose of finishing the improvements. Work commenced in October and was continued until the end of the year. Fifty settees have been added to the seating accommodations at this park during the year.

DEXTER TRAINING FIELD.

Forty-five settees have been placed at this field for the accommodation and convenience of those who desire to sit in the shade of the trees and enjoy the refreshing breezes during the hot and sultry weather of summer.

HOPKINS PARK.

The statue of Admiral Esek Hopkins has been erected at this park and a small amount of filling has been done around the base of the statue to protect the foundation from the action of frost.

The work on the smaller parks and squares has been one of maintenance only.

ROGER WILLIAMS PARK.

The work on the older part of the park has been largely of maintenance, lawning, re-turfing, repairs to drives, etc.

The New Memorial Boat House was occupied on May 1st and has been of great advantage to the steam launch and

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row boat service. Thousands of visitors inspected this building during the summer, the Secretary of the Commission being in attendance to extend the courtesies of the Park Commissioners to visitors, and to escort them over the new park.

The new Casino, a large and ornamental structure for recreation and amusement, is completed and ready for use, except the decorations and furnishings. An appropriation being now available for this purpose the work is in progress and will be completed at an early day. This building being located very nearly on the site of the old "What Cheer Cottage" and being nearly three times the size of the old, naturally required a new arrangement of the walks and drives adjoining it. The changes in the walks and drives required have been made, and the grading and seeding have been completed.

Two new launches are much needed to provide proper facilities for accommodating the large number of people who enjoy a sail on the waters of the lakes. The revenue that can be obtained from this source will pay a large yearly percentage on the outlay.

The old boat-house which was located on a very narrow part of one of the main drives, and which was vacated by the park department May 1st, and afterwards occupied as a cyclery during the summer months, has been removed. The upper story has been taken to a new location near the stable and utilized as an aviary. The removal of this building opens up a very fine view and it is expected will obviate a very congested condition of the drive.

The tool house adjoining the railroad has been remodeled in its interior and fitted up as the temporary quarters for "Baby Roger" and the sacred cattle given to the park by Mr. O. H. P. Belmont.

The improvement of the newly acquired area of the park required a large increase in the seating capacity. The present supply of settees being very inadequate for the number of people visiting here. At least one thousand new seats

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should be provided for immediate use. Some provision should also be made for a carriage service for use during the summer season, the large extent of the drives preventing large numbers who are not fortunate enough to have a carriage, from enjoying the beautiful scenery of the southerly part of the park.

SKATING.

The enlarged area of lake surface furnishes ample opportunity for all who wish to enjoy this sport, a conservative estimate placing the number of those who were present on Christmas day, 1896, at 20,000. No building of adequate size for providing for the comfort and convenience of such a number of people during the skating season is now available for this purpose.

BAND CONCERTS.

During the past summer, beginning the latter part of July and extending through August into September, open air concerts were given by Reeves's American Band. These concerts were well patronized and proved a success from the very first, those on Friday and Sunday evenings being especially well attended. From the success attending this series of concerts the past summer the Commissioners would be glad of the opportunity to repeat this most enjoyable form of public entertainment.

IMPROVEMENT OF NEW AREA.

The work on the improvement was commenced the first of April and consisted mainly in building walks, ploughing, grading, and seeding all of the additional area of the park except the Field Wood Lot, a small portion near the new boat house and adjoining the Art Museum, which were graded and seeded the previous fall, about one thousand bushels of seed being required for this purpose. The season proved a very favorable one, and although the seeding was

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done continuously as each tract was prepared, the frequent rains caused the seed to quickly germinate and cover the surface with its mantle of green.

The two handsome bridges connecting the large island with the easterly and westerly portions of the park have been completed with the exception of the asphalt wearing surface which will be laid early in the spring. The cost of these bridges was about seven thousand dollars less than the City Engineer's estimate. These bridges are handsome in design and built in a very substantial manner.

The foot bridges spanning a part of the lake near the new boat house has been raised to allow the passage of the steam launches through it.

The drives and walks on the large island have been built, and on the completion of the two bridges, were thrown open to the public. The gravel pit on this section where the material for building the drives, walks and for necessary filling was obtained, has been leveled off, covered with a layer of loam and seeded.

The drive on the northerly side of the park has been graded and covered with the bottom layer of gravel, but owing to a lack of funds is in an incompleted state.

No work has yet been done on the Athletic Grounds on the Field Wood lot (so called) where suitable provision is to be made for all kinds of out door sport.

The grading and furnishing of these grounds with the completion of the drive just mentioned, practically completes the improvements at Roger Williams Park. This work has furnished employment for a large number of indigent residents of the city, many of them with families dependent on them for support, who without this opportunity of earning an honest living, would have been thrown upon the charitable societies of the city or the poor department. During the progress of this work the number employed reached nearly four hundred for several months. The results obtained compare very favorably with those of the preceding year, and as was then stated, demonstrates that with proper

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supervision, work of this character can be done better and with greater economy than by contract.

THE ART MUSEUM.

Public appreciation of this institution is evidenced by the attendance during the year. In 1897 over seventy thousand people visited the Museum and inspected the exhibits, a large proportion of whom were pupils and teachers of our public schools, many from other cities which have not such an educational auxiliary as Providence.

Through the kind donations of friends of the institution, about 4,000 specimens have been added to the collection, 69 specimens of birds, 6 coins, 440 eggs, 3 fishes, 16 implements, 19 mammals, 1327 minerals, 12 nests, 300 insects, 10 batrachians, 17 curios, 43 fossils, 6 osteological preparations, 16 snakes, 7 sponges and 306 species of shells represented by 1644 specimens.

More than one-third of these specimens have accumulated since October 1st, at which time exhibition cases were introduced particularly well adapted for such use, but the Museum is in need of representatives of some of the commonest Rhode Island birds and mammals, as well as many types of Zoological importance, required to illustrate the educational work that it is desirable for the Museum to do.

Appended is a list of donors and donations. To the library have been added 164 publications, for which we are indebted to the following:

The U. S. National Museum,
The Chicago Academy of Sciences,
Mr. J. S. Kellogg,
The Smithsonian Institution,
Mr. George R. Sherman,
Mr. S. D. Barrett.

MUSEUM GIFTS.

Ashel Albae, Jr., one Mantis shrimp.
Daniel R. Allen, one arrow head.
Miss Elizabeth Andrews, shells.
Edward H. Armstrong, moles, mice, snakes, insects and cocoons.
Mrs. George Arnold, four legged chicken.

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William M. Bailey estate, table cases, minerals, shells and implements.
S. D. Barrett, one Chiastolite picture, two books, seventy-two shells, three hundred and fifty-two minerals.
R. S. Beckwith, fossil wood.
Gustavus Bender, Luna moth.
James E. Bilson, nests, insects, cocoons.
Alfred Brownell, flickers eggs.
W. W. Budlong, Indian medicine rattle and fifty-nine East Indian butterflys.
Harry Burns, insects.
Mrs. L. J. Chase, minerals.
Mrs. H. B. Chafee, star-nosed mole.
Rev. D. Chambers, minerals.
S. W. Chappell, Jr., Warren, R. I., twenty-five sets of birds eggs.
Judge J. S. G. Cobb, arrow heads.
William J. Crossley, minerals.
George N. Cummings, a Danish silver coin.
Frank Curran, nests.
Mrs. Sarah De Munn, insects and nine insect cases.
George Dexter, insects.
Newton Dexter, publications, rattlesnake skins and mounted birds.
Fred P. Drown, birds, reptiles, and batrachians.
Thomas C. Durfee, minerals.
H. Anthony Dyer, nine hundred fine minerals.
Edward A. Edgars, silver haired bat.
Herbert F. Eddy, choice insects.
John and Thomas Flannagan, birds and eggs.
Mrs. Charles Fisher, a thirteen-stripe squirrel.
Friends, coins, nests, snakes, osteological and alcholic preparations.
Daniel Myron Greene, fifty-five eggs and nests.
Henry A. Greene, butterflies.
Edward Hammond, an albino sparrow.
Noah Hanes, free gold.
Earl Harrington, nests, cocoons, minerals and coin.
George, Haskill, insects.
Miss Mary Hawkins, a shed snake skin.
Willie Heath, nests, eggs and a ring-neck snake.
S. B. Hood, minerals, (by exchange).
Mrs. O. W. Hopkins, curios.
Mrs. Walter Hough, shells, minerals, starfish and insect.
Charles Hurlbut, minerals.
Dr. Johnson, shells.
Edward Keith, reptiles and insects.
John S. Kellogg, eleven publications and one mounted heron.
Frederic Lamson, Salem, Mass., old porcelain and pewter plates and curios.
J. Harold Mason, bird skins, fossils, sponge and shells.
Howard H. Mason, fifteen bird skins.
Menagerie, four skins.
Clinton Merril, red-bat.

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Mrs. L. E. Moore, Indian arrows.
Paul F. Miller, shell.
C. H. Nash, Woonsocket, R. I., minerals.
J. A. Nichols, eggs.
Birtie Nock, lizards.
Howard Perkins, four birds.
J. Frank Perry, forty-eight eggs.
James A. Pierce, bird skins, eggs, Indian implements.
Norman Robbins, small mammals and snakes.
Willard Salisbury, one sandpiper.
Edward Sargent, granite.
Schonhardt, insects.
J. E. Setchell, New Haven, Conn., nest and eggs.
Silas Sherman, minerals.
Mrs. A. D. Smith, mounted birds, blind fish, stalactites and shells.
James M. Southwick, one hundred and eighty-nine species, one thousand three hundred and thirty-seven specimens, shells.
James W. Stainton, eighteen sets of eggs.
B. W. Sweet, Indian axe.
Mrs. Teel, shells, corals and otto skull.
Miss Annie Tillinghast, willow stump gnawed off by beavers.
Mason W. Tillinghast, mounted R. I loon.
Miss Agnes Troup, six mounted birds.
Harry Tucker, silver gar.
Charles Walker, Woonsocket, R. I., eleven minerals.
Leroy Walker, Woonsocket, R. I., mineral.
Edward J. Welch, Spanish bull fighters.
George H. Weston, twelve insect cases.
Frances Bradford Wheaton, Washington, D. C., minerals, fossils, implements and relics of the Mexican and civil war.
Frank E. Wright, mounted birds.

To the loan exhibition have been added the following:

One Sassaybe antelope, one kangaroo, one walrus head, two fishes, two birds, three starfish, one geode, Brown University.
One fossil tooth of Columbian elephant, Thomas J. Hayter.
Eight cases containing ninety-eight specimens of birds and fishes, J. W. Stainton.
Thirty-seven pieces dress and implements of N. A. Indians, six pieces Mexican and civil war relics, Francis Bradford Wheaton.
Two Chiastolite pictures, S. D. Barrett.
One cotinga, one emeu egg, J. W. Southwick.
Two cases, representations of celebrated diamonds and precious stones, Robert Hunter.
One microscope and case, Brown University.
Forty-nine butterflies and moths, E. B. Pope.

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To the art department have been added as loans the following:

Fifteen pictures, Charles H. Battey.
One picture, Miss Sarah J. Eddy.

The value of the property contained in the museum belonging to the city may be summed up as follows:

27	Mounted mammals and skeletons	$1,792 00
31	Mounted birds	141 65
	Bird and mammal skins	195 55
	Eggs and insects	95 37
	Minerals and fossils	1,372 30
	Shells, corals and sponges	401 40
	Reptiles	58 00
	Ethnological material	24 50
	Numismatic	3 15
	Curios	1 50
	Nests	2 75
130	Bound publications	250 00
13	" " paper covers	25 00
113	Pamphlets	16 90
	Portrait Mr. John Steere in oil	10 00
	" Lieut. Joseph S. Milne in oil	15 00
	" Mr. Clark Dalrymple	15 00
	" Mr. George Wilkinson	25 00
	" Admiral Esek Hopkins	25 00
	The battle of Waterloo in oil	25 00
	Ideal female head, in oil	5 00
11	Mahogany exhibition cases	3,000 00
10	" 24 by 30 insect cases	
1	Oak desk and chair	40 00
	Oak settees and chairs	500 00
2	Step ladders	12 00
1	Old desk	?
2	Common chairs	50
7	Pine trays	1 05
1750	Paper trays	15 00
1	Fire extinguisher	30 00
19	Insect cases	38 00
2	Glass shades	2 00
	Glass bottles and jars	3 50
2	Earthen jars	3 00
1	Set Smith markers	4 50
2	Tables and horses	2 00
	Rubber mat	25 00
		$8,176 62

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Presentations for the year are the following:

Tin baking oven, formerly belonging to Betsy Williams, William R. Sherman, City.
One black goat, King Phillip Tribe Red Men.
One rabbit, Edward Salisbury, City.
One pair rabbits, Masters Ludwig and Chas. Rittman, City.
Brazilian parrot, John C. Lord, City.
Pair of baby owls, Mrs. P. Leach, City.
Bedstead, 114 years old, Mrs. Scott W. Mowry, City.
Candlestick, 100 years old, Mrs. Laura P. Franklin, Brooklin, Ct.
Chimpanze monkey, Mrs. E. B. Fales, Barrington, R. I.
Bill fish for Museum, Harry Tucker, City.
Oscelot and Australian pig, W. W. Budfong, Hills Grove, R. I.
Rattlesnake (R. I. variety), Newton Dexter, City.
Two Pekin ducks, Mrs. William Gartside, City.
One pair white rabbits, Charles Munroe, City.
One orange tree, 7 feet high, 11½ inches round the base. (The seed of this tree was planted by Mrs. Samuel Clark of Cumberland, over sixty years ago), Mrs. Willis C. Legg, City.
One roan horse, J. Frank Read, City.
One rabbit, Irving C. Luther, City.

O. H. P. Belmont Collection, consisting of:

Two mongoose, two Egyptian stork, two pheasant, one red and blue macaw, one yellow and blue macaw, four blood breasted doves, one turtle dove, five jungle fowl, two spotted deer, one India deer, four monkeys, ten sacred cattle, and one black Pekin bull.

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RECEIPTS.

PUBLIC PARKS, — GENERAL ACCOUNT.

Sale of grass, Davis Park	$ 10 00
Rent of house, Davis Park	10 00
Rent of bicycle building at Blackstone Park	112 50
Total	$132 50

PUBLIC PARKS, — ROGER WILLIAMS PARK.

Use of pails	70
Setting tree	2 00
Percentage of receipts from music boxes	3 62
Percentage of receipts from weighing machines	7 80
Percentage of receipts from ice water fountains	10 23
Sale of buildings	32 50
Sale of muck	61 10
Use of pony teams	544 10
Commission on carousal	700 10
Use of steam launches	778 90
Sale of wood, old lumber, etc	926 23
Use of boats	1,902 03
Total	$4,969 31

ROGER WILLIAMS PARK, REVENUE.

Percentage of music box receipts	1 18
Sale of views of park	1 90
Rent of land	2 00
Use of pony teams	2 60
Percentage of receipts from weighing machines	2 72
Use of steam launches	3 10
Use of baby carriages	4 90
Percentage of receipts from ice water fountains	5 00
Percentage of receipts from bicycle locks	6 42
Use of boats	8 45
Use of casino	15 00
Sale of fowl, material, etc	70 73
Use of ice chairs	76 70
Sale of ponies, saddles, etc	102 00
Sale of skate straps	102 30
Use of swings	119 20
Sharpening and repairing skates	206 35
Use of skates	253 40
Articles checked	277 33
Total	$1,261 28

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EXPENDITURES.

BLACKSTONE PARK, IMPROVEMENT LOAN ACCOUNT.

Blackstone Boulevard parkway, City Council resolution No. 336, series of 1897	$1,999 78
River road, etc., City Council resolution, Nos. 181 and 436, series of 1896	1,736 50
Total	$3,736 28

CASINO, ROGER WILLIAMS PARK.

Carpenter work	$14,012 00
Mason work	9,386 00
Plumbing	2,295 00
Heating	1,197 00
Painting	850 00
Plans, etc	705 47
Gas fixtures	450 00
Electrical work	159 50
Total	$29,054 97

DALRYMPLE MEMORIAL BOAT HOUSE.

Construction of boat house	$2,789 42
Plans, etc	71 39
Bronze memorial plate	68 00
Total	$2,928 81

DAVIS PARK, IMPROVEMENT LOAN ACCOUNT.

Purchase of land, as per resolution of the City Council, No. 363, series of 1896	$34,000 00
Remodeling building, as per resolution of the City Council, No. 596, series of 1894	230 20
Improvement of land, as per resolution of the City Council, No. 427, series of 1893	12 86
Total	$34,243 06

PUBLIC PARKS, GENERAL ACCOUNT.

Salary of Superintendent of Parks	$1,501 71
Hopkins park, City Council resolutions No. 611, series of 1883, and No. 420, series of 1896	1,023 75
Salary of Secretary of Park Commission	702 28
Assistant to Superintendent	501 50
Printing, stationery and supplies	314 23
Furniture	151 00
Freight	9 50

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Expended on the following parks:		
Davis	$1,950 11	
Blackstone	875 27	
Hayward	419 78	
Tockwotton	268 12	
Abbott	187 82	
Prospect Terrace	113 61	
Washington	85 72	
Franklin	63 35	
Fenner	36 51	
Dexter Training field	19 90	
Columbus	12 05	
		$4,032 24
Total		$8,236 21

PUBLIC PARKS, ROGER WILLIAMS PARK.

Pay rolls, labor and teams	$17,667 21
Care and improvement of grounds	2,477 82
Buildings, repairs and furnishings	2,406 61
Hardware, tools and supplies	2,351 04
Animal's feed	1,958 00
Salary of Curator at museum	999 06
Grain, feed, etc	925 75
Water	800 00
Fuel	736 60
Two moose	350 00
Wagons, harnesses, repairs, etc	344 00
Horse shoeing	175 62
Laying drain	158 75
Steam launches, repairs, etc	150 03
Horse	150 00
Rent of telephone	121 51
Boats, repairs and furnishings	101 46
Freight, express, telegrams, etc	68 37
Services of veterinary	68 00
Analyses of viscera of bear	40 00
Settees, repairs, etc	35 75
Analysis of water from well	15 00
Inspection of boilers, steam launches	10 00
Total	$32,110 58

ROGER WILLIAMS PARK, IMPROVEMENT LOAN ACCOUNT.

Bridges to island, improvement of Eleanor Field wood lot, so called, and completion of improvements, authorized by City Council resolution No. 505, series of 1896	$97,158 50
Removing mud, etc., from "No Bottom Pond District," City Council resolution No. 285, series of 1896	30,427 55
Amount carried forward	$127,586 05

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Amount brought forward	$127,586 05
Boulevard, grading, etc., City Council resolution No. 180, series of 1896	9,749 91
Main Avenue, etc., City Council resolution No. 583, series of 1894	6,170 21
Salaries of assistant engineers	2,188 53
Boat sheds, City Council resolution 105, series of 1895	1,556 00
Wharf at new boat house, City Council resolution No. 55, series of 1896	420 00
Cutting wood, brush, etc., from Main Avenue, City Council resolution No. 599, series of 1894	386 36
Building dam, Cunliff's Pond, City Council resolution No. 491, series of 1895	92 39
Total	$148,149 45

ROGER WILLIAMS PARK, LAND ACCOUNT.

Land adjoining Roger Williams Park, to be used for the Union Veterans Grove Association, City Council resolution No. 115, series of 1897	$4,482 69
Land for extension of Roger Williams Park, City Council resolution No. 679, series of 1892	2,332 71
Total	$6,815 40

INVENTORY OF STOCK AND TOOLS AT ROGER WILLIAMS PARK.

6 Horses	$ 500 00
13 Ponies and 1 donkey	1,300 00
9 Deer	225 00
8 Prairie Dogs	16 00
5 Monkeys	40 00
20 Pea Fowl	100 00
22 Wild geese	44 00
45 Ducks	22 50
1 Swan	30 00
1 Bengal tigress	1,000 00
2 Jaguars	600 00
5 Raccoons	20 00
4 Hampshire down sheep	20 00
2 Ocelots	50 00
1 Peccary	10 00
45 South down sheep	225 00
12 Rabbitts	4 80
1 Black bear	30 00
2 Paroquets	10 00
21 China geese	42 00
3 Lions	2,225 00
1 Pair leopards	600 00
5 Hyenas	700 00
Amount carried forward	$7,814 30

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	Amount brought forward	$7,814 30
1	Black leopard	300 00
2	Pumas	200 00
1	Elephant	1,500 00
1	Rattlesnake	5 00
3	Moose	650 00

O. H. P. BELMONT COLLECTION OF BIRDS AND ANIMALS.

1	Black Pekin bull	500 00
2	Spotted India deer	500 00
1	Gazelle	100 00
10	Sacred cattle	2,900 00
2	Mongoose	25 00
1	White ringtail monkey	500 00
3	Monkeys	30 00
1	Ring neck dove	1 00
4	Blood breasted doves	12 00
2	Macaws	30 00
2	Pheasants	20 00
2	Egyptian stork	40 00
5	Jungle fowl	25 00
34	Wooden settees, Roger Williams Park	15 00
4	Rustic " " " "	4 00
306	Iron " " " "	918 00
45	Settees, Tockwotton Park	180 00
45	" Dexter Training Field	180 00
45	" Hayward Park	180 00
20	" Prospect Terrace	80 00
12	" Franklin Park	48 00
10	" Washington Park	40 00

HOSE.

450	Feet 2½ in., Roger Williams Park	45 00
	Rubber hose, " " "	40 00
	" " Tockwotton "	20 00
	" " Hayward "	20 00
3	Hose reducers, Roger Williams Park	3 00

HARNESSES, WAGONS, ETC.

4	Tip carts	75 00
3	Watering carts	650 00
4	Cart harnesses	40 00
2	Express harnesses	15 00
1	Pond harness	5 00
2	Lead and 6 pony harnesses	75 00
3	Pair double harnesses	125 00
	Amount carried forward	$17,910 30

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	Amount brought forward	$17,910 30
1	Business harness	20 00
2	Horse lawn mowers	40 00
1	Jumper sleigh	6 00
3	Hand carts	20 00
1	Road roller	25 00
1	Express wagon	25 00
1	Lumber wagon	20 00
4	Pony wagons	250 00
3	Dog carts	75 00
2	Sets horse lawn boots	8 00
1	Sleigh	40 00
1	Lumber reach	70 00
1	Top buggy	150 00
1	Open buggy	125 00
1	Two horse wagon	300 00
1	Two horse mowing machine	35 00
1	Pony saddle	5 00
	Blankets, robes, halters, brushes, etc	60 00

ICE TOOLS, ETC.

13	Snow scrapers	100 00
1	Ice planer	150 00
5	Ice hooks	1 00
1	Skate grinding machine	50 00
2	Pairs ice tongs	3 00
1	Ice auger	2 50
1	Toboggan slide	100 00
3	Snow ploughs	6 00
2	Ice chisels	4 00
120	Pairs skates	100 00
	Skate straps, trimmings and rivets	10 00
30	Ice chairs	90 00
95	Snow shovels	23 75
2	Skating signals	4 00

TOOLS.

2	Harrows	15 00
9	Grass hooks	1 50
2	Paving hammers	3 00
	Beetles and wedges	5 00
1	Grade line and reel	2 00
1	Saw clamp	50
1	Vise	5 00
	Lot of small tools	15 00
2	Monkey, 3 pipe, and 2 cart wrenches	5 00
4	Border trimmers	1 00
1	Grindstone	10 00
1	Foot lathe	8 00
	Amount carried forward	$19,899 55

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	Amount brought forward	$19,899 55
1	Vegetable cutter	8 00
2	Jack screws	8 00
1	Hay knife	1 00
1	Stump puller and fixtures	40 00
19	Lawn mowers	75 00
8	Scythes and snathes	9 00
82	Iron rakes	24 60
2	Steak knives and steel	2 00
1	Pair snip shears	2 00
1	" hedge shears	2 00
1	" shears	1 00
2	Large rakes	1 50
1	Pair pruning shears	2 00
4	" horse clippers	5 00
11	Hay forks	2 75
1	Horse rake	20 00
2	Wagon jacks	3 00
1	Manure hauler	50
1	Hay cutter	3 00
5	Lawn sprinklers	25 00
3	Branding irons	3 00
5	Pairs sheep shears	2 50
2	Post hole spoons	1 00
1	Hand pump	2 00
1	Fertilizer spreader	25 00
3	Catch basin tops	12 00
1	Wheel weeder	1 50
20	Scoop shovels	15 00
4	Sidewalk scrapers	1 20
1	Cleaver	1 00
1	Saw	75
12	Tool boxes	75 00
1	Hay Tedder	35 00
1	Steam road roller	2,400 00
1	Steam boiler and fittings	150 00
1	Cultivator	6 00
5	Ploughs	40 00
2	Scoop scrapers	10 00
2	Watering troughs	15 00
184	Shovels	92 00
63	Pick axes	18 90
41	Grub hose	15 00
44	Hay rakes	11 00
5	Spades	3 75
18	Axes	9 00
8	Bush scythes	6 00
62	Spading forks	24 80
2	Adze	3 00
	Amount carried forward	$23,114 30

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	Amount brought forward	$23,114 30
20	Manure forks	10 00
4	Turf cutters	3 00
1	Garden roller	15 00
1	Land smoother	2 50
3	Hose wrenches	2 25
1	Hatchet	50
2	Cross cut saws	2 50
72	Mattocks	21 60
15	Iron bars	15 00
4	Hand saws	4 00
12	Chains	24 00
4	Eveners	5 00
11	Whiffletrees	13 75
18	Potato diggers	4 50
27	Hoes	8 10
1	Post hole digger	1 00
1	Hand vice	50
2	Sledges	1 50
100	Tons of hay	1,500 00
55	Cords of wood	110 00
	Boat house and office furniture	1,750 00
12	Tables	15 00
1	Show case	4 00
1	Stencil plate	1 00
	Tent poles	25 00
2	Copper boilers	10 00
27	Wooden and iron pails	5 00
	Cups	7 30
8	Watering pots	8 00
200	Signs	85 00
1	Band stand	10 00
1	Water motor	50 00
11	Iron and 6 wooden wheelbarrows	17 00
4	Ladders	12 00
7	Vases	18 00
2	Barrels and truck	8 00
8	Ash cans	20 00
69	Storm sash	175 00
24	Padlocks	15 00
1	Flag	25 00
15	Lanterns and lamps	22 50
1	Gasoline lamp	1 00
8	Stoves and pipe	15 00
2	Cement stools	3 00
10	Swings and frames	100 00
49	Boats and oars	1,800 00
2	Steam launches	1,500 00
5	Baskets	5 00
	Amount carried forward	$30,565 80

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	Amount brought forward	$30,565 80
27	Boat cushions	27 00
2	Chairs and 1 clock	35 00
	Planks, boards and joists	25 00
400	Brass checks	15 00
24	Park music stands	50 00
10	Water barrels	5 00
1	Gallon oil can	35
6	Fire extinguishers	75 00
4	pairs Rubber boots	9 00
1	Spraying pump and fittings	10 00
1	Set scales	9 00
1	Cash register	25 00
2	Parrot stands	6 00
7	Coal hods	1 75
25	Brooms	4 00
25	Toboggans and cushions	50 00
1	Head light	30 00
1	Hydrant head	5 00
	Furniture at Betsy Williams Cottage	500 00
12	Vault tubs	12 00
12	Hand scrapers	10 00
2	Gravel screens	4 00
1	Step ladder	5 00
250	Iron guards	25 00
	Nails	10 00
	Paints, oils, brushes, etc	10 00
3	Blocks and falls	15 00
	Set of letters and figures	1 00
1	Fountain	50 00
1000	Fertilizer bags	50 00
	Drain pipe	15 00
8	Push brooms	4 00
4	Window awnings	8 00
	Storm porches and fountain covers	25 00
20,000	feet spruce lumber	100 00
	Baby carriages	8 00
1	Oil tank	5 00
	Total	$31,804 90

DAVIS PARK.

500	Feet hose	$35 00
2	Lawn mowers	15 00
4	Grass hooks and rifles	25
3	Whetstones	10
4	Oil cups	20
5	Scythe sticks and 9 scythes	5 00
16	Wooden rakes	3 20
3	Iron rakes	1 00
	Amount carried forward	$59 75

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	Amount brought forward	$59 75
4	Manure forks	1 00
3	Hay forks	1 00
8	Shovels	2 00
3	Street hoes	60
2	Edging knives	50
3	Pails	1 00
3	Axes	1 00
1	Hammer and saw	1 00
2	Baskets	50
2	Wheelbarrows	2 00
2	Picks	1 50
1	Snow shovel	25
1	Step ladder	3 00
62	Settees	248 00
3	Brooms	50
1	Long handled brush	75
1	Dust pan and brush	1 00
1	Feather duster	50
1	Grindstone and frame	3 00
32	Feet drain pipe	20 00
3	Hydrant wrenches	1 50
2	Reducers	2 00
15	Tons Hay	225 00
17	Signs	12 00
1	hand cart	5 00
	Total	$594 35

RECAPITULATION.

Roger Williams Park	$39,961 52
Davis Park	594 35

R. H. DEMING, *President.*
FRANK S. OLNEY,
EDWIN D. McGUINNESS.

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REPORT

OF THE

Joint Committee on Finance

SUBMITTING A REPORT

OF

GEORGE S. CHASE,

EXPERT ACCOUNTANT,

UPON

Reports of the City Auditor and City Treasurer.

[Presented April 18, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT OF THE JOINT COMMITTEE ON FINANCE.

To the Honorable the City Council of the City of Providence:

The Joint Standing Committee on Finance of the City Council, beg leave to report that in accordance with Chapter 571 of the ordinances, they have caused the annual reports of the City Treasurer and the City Auditor for the financial year ending Sept. 30, 1897, to be examined by Mr. George S. Chase of Boston, a person skilled in the examination of accounts, and beg leave to present herewith his report thereon.

Respectfully submitted,

J. W. ANGELL,

Chairman.

REPORT OF GEORGE S. CHASE.

PROVIDENCE, R. I., March 15, 1898.

MESSRS. JOHN W. ANGELL,
WILLIAM BLAKELY,
J. WILLIAM MOORE,
BENJAMIN W. SPINK,
HENRY B. WINSHIP.

Finance Committee of the City of Providence.

GENTLEMEN: I have, at your request, made a careful examination of the books and accounts of the Treasurer's Department for the year ending September 30, 1897, and I beg leave to submit the following:

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REPORT.

On the 20th day of December, 1897, at the close of the day's business I counted all the cash and cash items in the office of the Treasurer at the City Hall.

On the same day, at my request, certified statements of the balances at the different banks were furnished me. At the same time I compared each daily deposit, as entered by the bank tellers on the deposit books, with the collections of that day, as per the Treasurer's cash book, and carefully checked all transfers between banks. This examination covered the time from the close of my last examination, April 12, 1897, [see City Document No. 20, 1897,] down to December 20, 1897, and included all the cash received at the Treasurer's office, whether general or special, the sinking funds and the Dexter Donation fund.

Attached to this report I give a statement of the bank balances at the close of business, Dec. 20, 1897, according to the Treasurer's books, together with the above mentioned certificates verifying the correctness of the same.

In addition to the above I find in the Treasurer's office similar certificates dated Oct. 20, 1897, which agree with the books of that date.

INCOME.

As a detailed list of the sources of income is given in the annual report of City Treasurer I do not consider it necessary to repeat it here. In a few cases I was not able to reach the original entries, but was obliged to content myself with the sworn statements on file at the Treasurer's office. In all cases where the original books are kept at the City Hall I have compared them with the monthly statements on file at the Auditor's office, with the duplicates at the Treasurer's office and with the Treasurer's cash. Finally in these, as in all other cases, I have followed the entries through the cash book into the ledger in order to satisfy myself that each source of income has received its proper credit.

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In the following cases my examination has taken a special form in consequence partly of the character of the income itself, and partly because in these, if anywhere, there lies the possibility of embezzlement by the clerks through whose hands the money passes.

Poll Taxes. I have made a most careful examination of this account. The cash received accounts for all names marked "paid" on the poll tax book, while for the others I find the original bills on hand at the office.

City Tax.

Total tax as per tax book.....		$2,906,094 14
Collections as per cash book....	$2,868,884 89	
Less interest cr. to int. acct..	113 81	
Balance applicable to tax.....	$2,868,771 06	
Abatements already authorized.	3,958 58	
		$2,872,729 64
Balance uncollected:		
City of Prov., assessments....	$934 81	
Sundry persons, real estate ...	5,388 64	
" " pers. prop....	27,041 05	
		$33,364 50

Of the above amounts I have carefully compared the tax bills on hand with the unpaid names on the list and all are accounted for.

City Licenses. I have compared the stubs of the license books in the City Clerk's office, one by one, with the entries in the Treasurer's cash book and I find every license accounted for.

Dog Licenses. The new system of recording the dog licenses works well, and the stubs of the license books verify the Treasurer's statement of the cash received from this source.

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Water Rents. In verifying the receipts from water rents and other branches of the Department of Public Works, I have compared the books of the two offices and I find them in complete agreement.

Rents. I have compared the cash received with the amounts credited to the city's tenants in the rent book and I find them in agreement.

Dexter Donation. Although the Dexter Donation Fund does not appear as a part of the Treasury cash, yet as the City Treasurer is *ex-officio* the treasurer of this fund, I have examined that account also. I find that all rents have been promptly collected and all income properly accounted for.

In General. In all other cases, as well as in those specified above, I have endeavored not only to verify the cash entry by the original voucher, but, as far as was possible, to satisfy myself that the cash received by the Treasurer was the full amount which the city was entitled to receive.

OUTLAYS.

Total Payments. The Treasurer in his report [City Document No. 2, pages 230 to 242,] charges the city with cash paid amounting to $8,860,997.35, divided as follows:

Commissioners of Sinking Funds.		$479,064 95
Interest on		
(a) Temporary loans.....	$106,297 13	
(b) Funded debt.....	629,585 00	
		$735,882 13
Loans paid:		
(a) Notes 72E, 77E, 79E to 87E.	$380,000 00	
(b) Other notes.....	3,182,214 05	
		$3,562,214 05
Sundry payments.....		4,083,836 22
Total....		$8,860,997 35

The explanations and vouchers for the above are as follows

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Commissioners of Sinking Funds. For all the transactions covered by the entries on pages 236 and 238 of the Treasurer's report I find in the Auditor's hands the receipts of D. L. D. Granger as treasurer of the sinking funds. I have also compared, item by item, the corresponding entries in the sinking fund books, including the bank deposit books, and I find them in agreement. The various appropriations for the redemption of bonds are as stated, they are properly credited to their respective accounts, and the balances of the several funds verify the statements in the Auditor's report, pages 13 and 14.

The figures above given are for the city's fiscal year which ended Sept. 30, 1897. I have thought it advisable to continue the examination of the sinking fund accounts to the close of the year 1897, using the same system of cross examinations, and am therefore able to certify that the trial balance exhibited by D. L. D. Granger as treasurer of the sinking funds under date of Dec. 31, 1897, is a correct statement of the various funds and accounts as they stood at the close of business that day.

Premiums on New Loans. The premiums upon the $500,000 highway loan, the $500,000 school loan, the $300,000 sewer loan and the $250,000 water loan negotiated during the year, amounting in all to $228,640, were covered as soon as received into the sinking fund.

Water Rents. I have carefully compared the water rents with the cost of water maintenance during the year, and I find that the excess of income over expenses is correctly stated at $87,074.95, and that this amount has been covered into the sinking fund as required by law, the vouchers being the receipt of the treasurer of the sinking fund and the books of the sinking fund commissioners.

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Interest. All the (a) temporary loans made during the year were from the sinking funds, and the interest on these loans, amounting to $106,297.13, has been paid into the sinking fund, which fact I have verified in the same way as the above.

For the interest on the (b) funded debt I find as vouchers the personal receipts of the holders (or of their attorneys) of the registered bonds, and for the coupon interest I find the monthly statements of the National City Bank of New York and the National Revere Bank of Boston, which agree with the Treasurer's cash and check books, and also the checks themselves. I have carefully checked each loan to assure myself that all such interest has been promptly paid.

Loans Paid. On Nov. 17, 1896, the (a) highway special note 72E was paid, note 77E was exchanged for nine (9) notes of $20,000 each, and then one of these, 79E was paid, reducing the account by $40,000.

On July 16, 1897, these eight notes were exchanged for eight others for the same amounts, but drawing only four (4) per cent. interest, and on Oct 14, 1897, immediately after the close of the fiscal year one of these was paid.

The (b) temporary loan account paid, amounting to $3,182,214.05, is partially offset by loans borrowed amounting to $1,401,725.90, showing a decrease in this account of $1,780,488.15.

All of the retired notes are on file at the Auditor's office, properly cancelled.

Sundry Payments:

(a)	State of Rhode Island	$354,531 66
(b)	North Burial Ground Sinking Fund	343 20
(c)	Audits 641 to 656 inclusive	3,728,961 36
	Total	$4,083,836 22

(a) State of Rhode Island. This is the proportionate share of the State in the various taxes collected by the city

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and for which there are on file in the Auditor's office the receipts of the State Treasurer.

(b) North Burial Ground Sinking Fund. This is the 5c. per square foot on the lots sold during the year, viz., 6,864 square feet at 5c., $343.20.

The receipts of D. L. D. Granger as treasurer of the North Burial Ground Sinking Fund are on file at the Auditor's office.

(c) Audits 641 to 656 inclusive, $3,728.961.36. These are sundry bills and pay rolls approved by the City Auditor, passed in committee on accounts, and ordered to be paid by the Mayor.

As vouchers for these I find at the Treasurer's office mayor's orders and auditor's drafts which, combined, amount to this sum; and I also find the autograph receipts of all the payees or their attorneys, except that for the regular city pay rolls the Treasurer holds the receipts of the paymasters or attorneys authorized to receive and distribute the money. The pay rolls themselves are on file at the Auditor's office. I have carefully examined each of these pay rolls and I find upon them the acknowledgement of receipt by each employee of the money due him or her,* with the exception that, for reasons unknown to me, three (3) payees whose names are in the audits and twenty-six (26) who are on the pay rolls had not, at the time of my examination received their money. And for these twenty-nine (29) I found in the hands of the Treasurer the original envelopes containing the money awaiting the demand of the rightful owners.

Besides the above there are two claims of Everson & Liddle and F. E. Shaw, amounting to $6,643.32, payment on which has been stopped. On Oct. 20, 1897, the money was deposited in the Industrial Trust Company as a special

* A large number of the pay rolls are of the laborers employed upon the highways and sewers. Most of these laborers sign for their pay by making their X. I respectfully suggest that it would be much more convenient for all concerned if this, instead of pen and ink, were done with a rubber stamp.

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deposit subject to the order of D. L. D. Granger, Treasurer, pending the decision of the dispute.

Of the pay envelopes on hand one year ago, I found eight (8) still on hand, twenty-seven (27) have been covered into the Treasury, and the remainder have been paid and the receipts for the same are on file at the Auditor's office.

Certificate of Examiner. I have, therefore, in the various ways specified above, verified the statement of the Treasurer of the moneys paid out by him amounting to $8,860,997.35, and I hereby certify that for this amount I have found full and satisfactory vouchers.

Trust Funds. The City Treasurer is also *ex-officio* treasurer of the sinking funds, the Dexter Donation fund, and sundry minor funds in the charge of the City as trustee. I have examined with the greatest care both the income and outlay accounts of each of these funds, and am sure not only that all moneys are properly accounted for, but also that each fund has received all the additions to which it is legally entitled.

Respectfully submitted,

GEO. S. CHASE,

Special Examiner.

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APPENDIX.

CITY OF PROVIDENCE.

DAILY BALANCES.

		DECEMBER 20, 1897
R. I. Hospital Trust Co.		
General Account	$302,870 44	
Sinking Funds	162,941 61	
		$465,812 05
Merchants National Bank.		
General Account	$202,958 49	
Sinking Funds	252,744 72	
		455,703 21
Industrial Trust Co.		
General Account	$238,227 94	
Special Account	8,839 84	
Dexter Donation	17,752 91	
" " Cap. acct	34,000 00	
Sinking Funds	134,079 15	
		432,899 84
Providence National Bank.		
General Account		475,062 05
Manufacturers National Bank.		
General Account		461,322 74
Total		$2,290,799 89

RHODE ISLAND HOSPITAL TRUST COMPANY,

No. 15 Westminster Street.

PROVIDENCE, R. I., Dec. 20, 1897.

Our books at the close of business this day show a balance of $302,-870.44 due you.

WM. A. GAMWELL, *Assistant Secretary.*

To City of Providence, "General Account."

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RHODE ISLAND HOSPITAL TRUST COMPANY,

No. 15 WestminsterStreet.

PROVIDENCE, R. I., Dec. 20, 1897.

Our books at the close of business this day show a balance of $162,-941.61 due you.

W. A. GAMWELL, *Assistant Secretary.*

To City of Providence, Commissioners of the Sinking Funds.

THE MERCHANTS NATIONAL BANK.

PROVIDENCE, R. I., Dec. 21, 1897.

D. L. D. GRANGER, ESQ., City Treasurer,
Providence, R. I.

DEAR SIR: Our books at the close of business, Dec. 20, 1897, showed a balance of $202,958.49 due to the City of Providence.

Yours very truly,

J. W. VERNON, *Cashier.*

THE MERCHANTS NATIONAL BANK.

PROVIDENCE, R. I., Dec. 21, 1897.

D. L. D. GRANGER, ESQ., City Treasurer,
Providence, R. I.

DEAR SIR: Our books at close of business, Dec. 20, 1897, showed a balance of $252,744.72 due to the City of Providence, Commissioners of Sinking Fund.

Yours very truly,

J. W. VERNON, *Cashier.*

INDUSTRIAL TRUST COMPANY.

PROVIDENCE, R. I., Dec. 21, 1897.

HON. D. L. D. GRANGER, City Treasurer,
Providence, R. I.

DEAR SIR: I beg to advise you that the books of the Industrial Trust Company show the following balance due the City of Providence, at the close of business, Dec. 20, 1897:

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On General Account	$293,755 27
On Special "	8,858 84
On Commissioners of Sinking Funds	134,079 15
On Dexter Donation Fund	17,755 31
On Dexter Donation Fund, Capital Account	34,000 00

Very truly yours,

CYRUS P. BROWN, *Treasurer.*

PROVIDENCE NATIONAL BANK.

Balance $475,062.05, Dec. 20, 1897.

PROVIDENCE NATIONAL BANK.

A. R. MATTESON, *Cashier.*

MANUFACTURERS NATIONAL BANK,

PROVIDENCE, R. I., Dec. 20, 1897.

Dec. 20, balance $461,322.74.

MANUFACTURERS NATIONAL BANK, Providence, R. I.,

G. W. LANPHEAR, *Cashier.*

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SIXTY-FIRST QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING MARCH 31, 1898.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., April 1, 1898.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter IV. of the ordinances, the Commissioner of Public Works respectfully presents the sixty-first quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending March 31, 1898:

WATER WORKS.

January 8th, the proposal of The Pomroy Coal Company to furnish the teams required for teaming at the city pipe yard during the year 1898, was accepted.

January 8th, the proposal of Builder's Iron Foundry to furnish special castings for the Water and Sewer Departments for the year 1898, was accepted and a contract subsequently executed.

January 31st, the proposal of Coffin Valve Company, of Neponset, Mass., to furnish and deliver twenty-five hydrants, boxes, and covers, was accepted. Amount, $2,340.

March 18th, the proposal of Chapman Valve Company to furnish and deliver six 6-inch post hydrants, was accepted.

The average daily consumption of water during the last quarter was 8,766,172 gallons.

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Water pipes were laid during the quarter as follows:

6-INCH.

In Forest and Wayne streets; Arlington, Elmgrove, and Lexington avenues	1,280.54 feet.

or, .242+ mile.

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	59,893.04 feet.
24-inch	43,553.03 feet.
20-inch	9,626.59 feet.
16-inch	34,084 95 feet.
12-inch	90,321.63 feet.
10-inch	15,050.47 feet.
8-inch	255,983.85 feet.
6-inch	1,119,603.38 feet.
Total	1,638,200.94 feet.

or, 310.265+ miles.

Statement of sizes and lengths of pipe laid for the Special Water Service for Fire Protection, since the commencement of the work:

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total	29,408.71 feet.

or, 5.569+ miles.

Three fire hydrants have been set during the quarter, one in each of the following locations:

Arlington avenue, east side, 31.5 feet north of north building line of Irving avenue.

Forest street, north side, on east building line of East avenue.

Laurel Hill avenue, Cranston, east side, 100 feet south of south line of Linwood avenue.

The total number of fire hydrants, exclusive of hydrants for special service for fire protection, is now seventeen hundred and ninety — seventeen hundred and eighteen flush, and seventy-two post hydrants.

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The total number of fire hydrants on the Special Water Service for Fire Protection is eighty-nine.

During the quarter, two hundred and thirty-three water meters were set, of which number forty were to replace other meters. The use of one meter was discontinued.

The following meters were in use at the close of the quarter:

Kind.	Size.								Total.
	⅝-in.	¾-in.	1-in.	1½-in.	2-in.	3-in.	4-in.	6-in.	
Ball & Fitts, piston	3,209	636	153	25	7	.....	.....	.....	4,030
Ball & Fitts, rotary	.....	.....	14	16	1	3	2	.....	36
Crown	7,394	758	233	102	28	15	17	.....	8,547
Empire	50	9	8	6	3	.....	.....	.....	76
Fales, Jenks & Sons	.....	.....	1	.....	.....	.....	.....	.....	1
Gem	.....	.....	.....	.....	3	9	7	1	20
Thomson	2,595	364	76	54	22	7	7	4	3,129
Trident	28	.....	.....	.....	.....	.....	.....	.....	28
Worthington	1	1	.....	.....	1	.....	1	.....	4
	13,277	1,768	485	203	65	34	34	5	15,871

One hundred and eight plumbers' licenses were issued during the quarter, all of which expire December 31, 1898.

Five hundred and eighty-eight permits to do plumbing work were issued during the quarter.

Seventy-eight applications for water were made during the quarter, making the total number March 31, 1898, twenty-two thousand five hundred and nineteen.

The number of new service stops opened during the quarter was one hundred and seven.

The total number of service stops opened to March 31, 1898, inclusive, was twenty-one thousand eight hundred and

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forty. The number in actual use March 31, 1898, was twenty thousand and forty-two.

The amount of bills approved on account of water works from January 1 to March 31, 1898, inclusive, was:

For construction and extension, . . . $24,525 55

Classified as follows:

Cast iron water pipe	$13,768 13	
Stop valves	2,649 65	
Fire hydrants, boxes, and covers	2,377 28	
Service pipe	1,587 81	
Laying service pipes	748 02	
Laying water pipes	681 47	
Special castings	544 17	
Patterns for special castings	534 50	
Taps and stops	466 90	
Tools	442 99	
Labor on and carting pipe	268 67	
Barn expenses	227 93	
Wharf salaries	195 00	
Horses, wagons, harnesses, etc	31 93	
Repairs on pipe yard buildings	1 10	
		$24,525 55

For maintenance, ... $18,145 72

Classified as follows:

PETTACONSKT PUMPING STATION.

Coal and wood	$1,583 52	
Sundries	1,460 45	
Engineers	525 33	
Firemen	415 70	
Superintendence	299 00	
Care of grounds	198 25	
Oil, waste and packing	90 36	
Labor on fuel	49 95	
Barn expenses	45 38	
Worthington high-duty pumping engine	14 72	
Lights	1 05	
		$4,683 71
Amount carried forward		$4,683 71

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Amount brought forward		$4,683 71
Sockanosset Reservoir.		
Watchman	$182 00	
Sundries	102 50	
		284 50
Hope Pumping Station.		
Coal and wood	$712 50	
Firemen	418 60	
Engineers	299 00	
Repairs on boilers	173 87	
Lights	78 75	
Holly pumping engine	73 82	
Sundries	37 54	
		1,794 08
Hope Reservoir.		
Sundries	$262 60	
Watchman	204 75	
		467 35
Fruit Hill Reservoir.		
Sundries	$341 53	
Watchman	204 75	
		546 28
Pipe Line and Service Stops.		
Repairs	$3,159 80	
Superintendence — salaries	840 35	
		4,000 15
Meter Department.		
Water meters	$2,365 96	
Setting and repairing meters	1,403 05	
		3,769 01
Miscellaneous.		
Clerks' and inspectors' salaries	$1,421 16	
Prevention of defilement of the Pawtuxet	466 66	
Barn expenses	273 79	
Horses, wagons, harnesses, etc	204 94	
Pipe yard, office expenses	93 59	
Analyses of water	90 00	
Sundries	50 50	
		2,600 64
		$18,143 72

The amount of expenditures from January 1 to March 31, 1898, inclusive, was $42,671 27

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The total expenditures to March 31, 1898, inclusive, were $8,671,190 18

The *net* expenditure for construction and extension from January 1 to March 31, 1898, inclusive, was	$22,544 83
The *net* expenditure for construction and extension to March 31, 1898, inclusive, was	$6,393,676 95
The *net* expenditure for maintenance from January 1 to March 31, 1898, inclusive, was	$12,626 87
The *net* expenditure for maintenance to March 31, 1898, inclusive, was	$1,429,825 49

The value of the water works system January 1, 1898, as estimated by the city engineer, was as follows:

Pettaconset pumping station	$340,694 00	
Hope pumping station	143,784 15	
Sockanosset, Hope, and Fruit Hill reservoirs	751,629 00	
Main lines and distribution pipes	2,764,100 98	
Real estate in Pawtuxet and Lincoln	15,975 00	
Tools and supplies	31,866 70	
		$4,048,049 83

Bills deposited with the city treasurer for collection from January 1 to March 31, 1898, inclusive, amounted to . . $370,097 50

As follows:

Water	$363,614 46
Water meters	3,638 50
Setting and repairing meters	1,324 30
Rent of real estate	225 50
Penalties	192 00
Permanently closing service stops	40 00
Labor and material, laying service pipes, etc	743 20
Lead dross	205 61
Old brass	113 93
	$370,097 50

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $320,089 10

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As follows:

Water	$312,397 53
Water meters	3,714 50
Setting and repairing meters	1,572 70
Penalties	192 00
Rent of real estate	150 50
Examinations and repairs on pipe line	41 15
Permanently closing service stops	40 00
Labor and material, laying service pipes, etc	1,661 18
Lead dross	205 61
Old brass	113 93
	$320,089 10

SEWERS.

During the quarter ending March 31, 1898, two hundred and twenty-four permits were issued to drain layers — one hundred and nineteen for new work, and one hundred and five for extension and repairs of drains.

Forty-two drain layers' licenses were issued during the quarter, all of which expire December 31, 1898.

February 9th, the sewer in Garden street, from Jackson street 140 feet westerly, was purchased of Eliza T. Paine, in accordance with Joint Resolution of the City Council, No. 55, approved February 4, 1898. Amount, $359.92.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer, as follows:

Chalkstone avenue, Section 19, Improved Sewerage System	$2,456 79
South Water street, Sections 17 and 18, Improved Sewerage System	8,279 29
Friendship street	83 41
Ruggles street and Chalkstone avenue	9,058 58
Esten street	929 93
Irving and Broad streets	2,368 05
Paine street	1,431 16
Chalkstone avenue, Lisbon street, and Regent avenue	9,130 13
Total	$33,737 34

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March 24th, a contract was awarded and subsequently executed, as follows:

[The amount given below is what is estimated will be paid the contractor for labor, and does not include the cost of inspection and materials, or rock excavation.]

TO EDWARD W. EVERSON.

No. of resolution.	Date of approval.	
406.	July 15, 1889,	*Section 2, Sewage Precipitation Tanks, Improved Sewerage System*, $78,135 00.

At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

No. of resolution.	Date of approval.	
572.	Dec. 20, 1895,	*Moshassuck River and West River Divisions, Improved Sewerage System, Section 20.*

Work upon the following sewers, completing the work ordered by the city council, had not commenced March 31, 1898, namely:

No. of resolution.	Date of approval.	
406.	July 15, 1889,	*Section 2, Sewage Precipitation Tanks, Improved Sewerage System.*
394.	Oct. 5, 1897,	*Broad and Rugby streets.*
416.	" 26, "	*Columbian avenue and Roger Williams Park.*

The amount of bills approved on account of sewers from January 1 to March 31, 1898, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation	$5,254 02	
Improved sewerage appropriation	17,669 21	
		$22,923 23

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Charged as follows:

Material	$3,735 83
Salaries of assistant engineers	3,404 75
Contract reservations	1,795 00
Sundries, improved sewerage system	244 11
Sundries	228 60
Experiments in filtration at Ernest street station	220 33
Additional catch-basins	111 58
Patterns for sewer castings	110 00
Testing cement	60 52
Tools	16 70
Sewer in Chaffee street, from Appleton to Manton avenue	9 27
Sewer in Garden street, from Jackson about 140 feet westerly	359 92
Carriage shed at Ernest street station—to build	227 22
Connecting lateral sewers with improved sewerage system	58 11
Grading grounds at Ernest street station	143 33
Sewer in Disposal Division, Section 4	132 01
Sewer in Manton avenue and King street	1,495 77
Sewer in Moshassuck Division, Station 20	10,575 18
	$22,923 23

For maintenance, ... $11,203 92

Charged as follows:

Cleaning basins and sewers	$3,095 26
Repairing basins and sewers	2,359 73
Inspection of connections	612 08
Tools	461 24
Salary—superintendent	430 00
Barn expenses	364 57
Sundries	343 53
Cleaning and repairing old drains	190 45
Horses, wagons, harnesses, etc.	60 35
Filling cisterns, etc.	51 90
Repairs on buildings at sewer maintenance yard	49 20
Office expenses	38 20
Cleaning private connections	28 70
ERNEST STREET STATION.	
Engineers	745 73
Supplies	650 41
Cleaning screens	545 60
Amount carried forward	$10,026 95

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Amount brought forward	$10,026 95
Firemen	441 33
Cleaning and repairing pumps	294 01
Coal and wood	163 63
Repairs on boilers	122 84
Lights	72 60
Repairs on engines	42 42
Care of grounds	33 97
Repairs on buildings	5 00
Care of buildings	1 17
	$11,203 92

The *net* expenditure for construction of sewers to March 31, 1898, inclusive, was $6,072,766 36

The *net* expenditure for maintenance of sewers to March 31, 1898, inclusive, was 559,193 13

Bills deposited with the city treasurer for collection from January 1 to March 31, 1898, inclusive, amounted to $558 48

As follows:

Miscellaneous work	$232 39
Removing debris from Moshassuck river	110 87
Filling cisterns, etc	53 21
Cleaning private connections	43 88
Old flagstones	3 36
Sewer material	114 77
	$558 48

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $526 25

As follows:

Miscellaneous work	$123 10
Removing debris from Moshassuck river	110 87
Setting track grates for Union Railroad Company	68 81
Filling cisterns, etc	53 21
Cleaning private connections	52 13
Old flagstones	3 36
Sewer material	114 77
	$526 25

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HIGHWAYS.

One permit to open street was issued during the quarter.

January 18th, the proposal of Crabtree & Havey to furnish and deliver 10,000 lineal feet granite curbing, was accepted. Amount, $4,600.00.

Statements have been prepared of the cost of curbstones set, ascertained by the commissioner and certified to the board of aldermen for approval, as follows:

Chambers street, from Huntington avenue to Potters	$887 82
Eddy street, from Broad to Morton and New York avenue	1,052 48
Grand avenue, from Angell street to South Angell	1,042 27
Irving avenue, from Taber to Blackstone boulevard	2,988 97
Lisbon street, from Chalkstone avenue to Regent	1,246 28
Milk street, from Chester avenue to Public street	749 65
Miner street, from Potters avenue to Sayles street	782 92
Osborn street, from Vale to Chalkstone avenue	1,562 43
Regent avenue, from Cornell street to its easterly termination	487 17
Westfield street, from Harrison to Fuller	475 05
Andem street, from Academy avenue to Canton street	85 11
Beach street, from Park to Holden	582 93
Blackstone street, from Eddy to Allens avenue	932 55
Brownell street, from Park to Francis	299 34
Easterly approach to new passenger station, from Exchange place to easterly termination, and westerly approach to new passenger station, from West Exchange street to West Exchange	773 64
Francis street, from West Exchange to bridge over Woonasquatucket river	753 21
Lyman street, from Dean to Franklin	773 92
Ontario street, from Melrose to Hamilton	764 26
Promenade street, from present end of pavement near railroad bridge to Steeple street, (a portion of)	208 43
Ruggles street, from Smith to Chad Brown	1,141 43
Whitney street, from Elmwood avenue to Alger	692 81
Total	$18,282 67

During the quarter the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Oct. 21, 1897, *Roger street, from Power to Williams.*
" " " *Power street, from Ives to Gano.*

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The following work was in progress March 31, 1898, namely:

Sidewalks to be Curbed and Gutters Paved.

Date of order.	
May 16, 1895,	*Francis street, from Cove and Exchange place to Gaspee street:* — three-fourths completed.
" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.
May 20, 1897,	*Francis street, from West Exchange to bridge over the Woonasquatucket river:* — one-half completed.
July 1, "	*Approaches to new passenger station:* — nearly completed.
Sept. 16, "	*Miner street, from Potters avenue to Sayles street:* — gutters to be concreted.
Oct. 21, "	*Irving avenue, from Taber to Blackstone boulevard:* — gutters to be concreted.

To be Paved with Granite Blocks.

No. of resolution.	Date of approval.	
151.	April 5, 1895,	*Francis street, from Cove and Exchange place to Gaspee street:* — three-fourths completed.
151.	" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.

To Pave with Trinidad Asphalt.

322.	July 13, 1897,	*Approaches to new passenger station:* — two-thirds completed.

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The following work, ordered by the board of aldermen and city council, had not commenced March 31, 1898, namely:

Sidewalks to be Curbed and Gutters Paved.

Date of order.	
Sept. 16, 1897,	*Peace street, from Elmwood avenue to Bucklin street.*
Nov. 18, "	*Whitmarsh street, from Updike to Elmwood avenue.*
Dec. 16, "	*Arlington avenue, east side, from Irving to University.*
" " "	*Ayrault street, from Valley to Chalkstone avenue.*
" " "	*Black street, from Orms to Chalkstone avenue.*
" " "	*Foster street, from Broad to Pine.*
" " "	*Lexington avenue, from Hamilton street to Broad.*
" " "	*Wayne street, from Nolan to Candace.*
" " "	*West Park street, from Holden to Senter.*

To Put in Good Condition.

Sept. 16, 1897,	*Irving avenue, from Grotto to its easterly termination.*

Bills approved on account of highways from January 1 to March 31, 1898, inclusive, amounted to:

Regular appropriation	$39,502 86	
Special appropriation	59 50	
Special credit appropriation	1,421 06	
		$40,983 42

Classified as follows:

Removing snow and ice	$12,889 46
Cleaning streets	6,951 02
Crushed stone — material and labor	4,681 37
Steam rollers—repairs and supplies	2,482 63
Amount carried forward	$27,004 48

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Amount brought forward	$27,004 48	
Blacksmith and wheelwright shop	2,467 40	
Barn expenses	2,129 63	
Repairs on unpaved streets	1,863 09	
Tools, implements, etc	1,575 79	
Stone—paving and crosswalk	1,249 52	
Labor on material	1,180 22	
Repairs on stone crushers	838 26	
Salary—superintendent	442 00	
Horses, wagons, harnesses, etc	229 35	
Watchman at city yard	156 00	
Repairs on paved streets	144 50	
Office expenses—city yard	58 18	
Sundries	49 14	
Building driveways, etc	37 58	
Watering streets	9 50	
		$39,434 64

New Work—Building and Rebuilding Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Power street, from Ives to Gano	$932 94	
Roger street, from Power to Williams	488 12	
		1,421 06

Grade and Put in Good Condition.

Allens avenue, from Public street to Henderson	$65 52	
Montgomery avenue, from Virginia to Maryland, and *Alabama avenue*, from Maryland to Montgomery	2 70	
		68 22

Pave with Trinidad Asphalt.

The two approaches to the proposed depot in Exchange place		59 50
		$40,983 42

Bills deposited with the city treasurer for collection from January 1 to March 31, 1898, inclusive, amounted to $6,832 74

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As follows:

Union Railroad Company, for granite blocks	$5,250 92
Union Railroad Company, for removing snow	657 75
Boarding horses for other departments	329 73
Labor and materials	304 28
Street sweepings	212 00
Manure from barn	72 00
Blacksmith and harness work for other departments	3 06
Removing trees	3 00
	$6,832 74

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of . . . $8,257 03

As follows:

Union Railroad Company, for granite blocks	$5,160 75
Labor and materials	1,453 44
Union Railroad Company, for removing snow	657 75
Blacksmith and harness work for other departments	368 36
Boarding horses for other departments	329 73
Street sweepings	212 00
Manure from barn	72 00
Removing trees	3 00
	$8,257 03

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from January 1 to March 31, 1898, inclusive, amounted to $739 10

Charged as follows:

Concreting sidewalks	$522 50
Granite curbing	216 60
	$739 10

Curbing bills deposited with the city treasurer for collection from January 1 to March 31, 1898, inclusive, amounted to $18,693 43

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During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, amounting to $4,380 85

As follows:

Curbing bills	$4,358 89
Concreting sidewalks	21 96
	$4,380 85

CITY ENGINEER.

Bills approved on account of the city engineer's department from January 1 to March 31, 1898, inclusive, amounted to . . . $10,922 27

Charged as follows:

Salary—city engineer	$1,125 00
Salaries of assistants	8,474 23
Salaries of clerks	763 75
Supplies—drawing material, etc	281 34
Car fares	205 90
Instruments and repairs	58 25
Sundries	13 80
	$10,922 27

BRIDGES.

February 12th, the proposal of Hovey Lumber Company to furnish and deliver 38,000 feet, B. M., spruce lumber at Washington and Point street bridges was accepted.

The following work was in progress at the end of the quarter, namely:

No. of resolution	Date of approval.	
158.	April 20, 1897,	*Weybosset bridge and river walls.*
446.	Nov. 19, 1897,	*Weybosset bridge extension.*

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Bills approved on account of bridges from January 1 to March 31, 1898, inclusive, amounted to $3,464 67

Charged as follows:

Acorn street bridge	$19 58
Barn expenses	91 42
Branch avenue bridge	1 35
Building at city yard	5 88
Eagle street bridge	2 18
Exchange bridge	96 54
Gaspee street bridge	13 70
Geneva bridge	3 62
Horses, wagons, harnesses, etc	12 43
Lumber, hardware, etc	19 13
Mill street bridge	8 20
Park street bridge	1 55
Point street bridge	250 32
Randall street bridge	3 90
Red bridge	151 47
Rent of keeper's house, Washington bridge	30 00
Salaries—Point street bridge	978 25
Salaries—Red bridge	504 50
Salaries—Washington bridge	481 00
Sundries	337 26
Tools	183 84
Veazie street bridge	101 25
Wanskuck bridge	17 92
Washington bridge	138 13
Weybosset bridge	11 25
	$3,464 67

Bills deposited with the city treasurer for collection from January 1 to March 31, 1898, inclusive, amounted to $302 96

As follows:

Union Railroad Company, for miscellaneous work	$175 00
New York, New Haven, and Hartford Railroad Company, for granite blocks	110 37
Union Railroad Company, for granite blocks	8 34
Old lumber	7 25
Sweepings from Washington bridge	2 00
	$302 96

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During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of . . $127 96

As follows :

New York, New Haven, and Hartford Railroad Company, for granite blocks	$110 37	
Union Railroad Company, for granite blocks	8 34	
Old lumber	7 25	
Sweepings from Washington bridge	2 00	
	$127 96	

Bills approved for account of rebuilding the Weybosset bridge and river walls, from January 1 to March 31, 1898, inclusive, have been paid from the special appropriation for that work, to the amount of $17,224 36

PUBLIC WORKS OFFICE.

Bills approved for account of the public works office, from January 1 to March 31, 1898, inclusive, amounted to $5,139 17

Charged as follows:

Salaries of commissioner and secretary	$1,925 00	
Salaries of office assistants	2,948 91	
Office supplies	265 26	
	$5,139 17	

ROBERT E. SMITH,

Commissioner.

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PROCEEDINGS

IN

THE MATTER OF THE RECENT ANNEXATION
OF A PORTION

OF THE

TOWN OF JOHNSTON.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898

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No. 452. Message of the Mayor relative to Printing Proceedings in the Matter of the Recent Annexation of a Portion of the Town of Johnston.

[Presented December 19, 1898.]

CITY OF PROVIDENCE,
EXECUTIVE DEPARTMENT, CITY HALL,
December 19, 1898.

GENTLEMEN OF THE CITY COUNCIL:

I herewith transmit a resolution authorizing and directing the City Clerk to print the proceedings in the matter of the recent annexation of a portion of the Town of Johnston, and recommend its passage.

Under the provisions of Chapter 562 of the Public Laws of Rhode Island, the report of the Commissioners was made to the Secretary of State, and no report was made to the City Council. The records of the final proceedings are, therefore, left incomplete in the records of the City Council, and should be completed at once in the manner provided by the proposed resolution.

Very respectfully,

WILLIAM C. BAKER,

Mayor.

No. 453. Resolution directing City Clerk to have printed the Proceedings in the Matter of the recent Annexation of a portion of the Town of Johnston.

[Approved December 30, 1898.]

RESOLVED, That the City Clerk be, and he is hereby authorized and directed to cause the proceedings in the matter of the recent annexation of a portion of the Town of Johnston, to be printed in document form for the use of the City Council.

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No. 33. Message of the Mayor Transmitting Petition of Nathan M. Wright et al., Relative to Annexation of a Portion of Johnston.

[Presented January 17, 1898.]

GENTLEMEN OF THE CITY COUNCIL:

I transmit herewith a petition of Nathan M. Wright et al., relative to the proposed annexation of the compact part of the Town of Johnston to the City of Providence. As the petitioners, who are taxpayers of Johnston, ask to have a conference with representatives of the City Council on this subject, I recommend that a joint special committee be appointed with instructions to confer with said petitioners, and to report thereon to the City Council.

Very respectfully,

WILLIAM C. BAKER,

Mayor.

[Copy.]

JOHNSTON, R. I., Jan. 4, 1898.

HON. WILLIAM C. BAKER,
Mayor of Providence.

DEAR SIR: The undersigned members of a citizens' committee of the Town of Johnston, respectfully request that you secure the appointment of a committee of conference on the part of the City to consider the proposed annexation of the compact part of the Town of Johnston to the City of Providence, and to co-operate in obtaining necessary legislation from the General Assembly.

NATHAN M. WRIGHT,
EMERY J. SAN SOUCI,
CHARLES H. COFFIN,
JOHN T. COLLISON,
HENRY S. TURNER,
WILLIAM JACOBS.

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No. 34. Resolution Appointing a Joint Special Committee to Examine and Report upon the Advisability of Annexing Any Portion of Johnston or Other Town.

[Approved January 21, 1898.]

RESOLVED, That the message of His Honor the Mayor, dated January 17, 1898, transmitting a communication from a Citizens' Committee of Johnston relative to the proposed annexation of the compact part of the town of Johnston to the City of Providence, be and the same are hereby referred to a Joint Special Committee consisting of Messrs. Angell, Jones, Otis and Hall, of the Common Council, and Aldermen McGann, Reynolds and Lowe, with instructions to confer with the committee named in said communication, and to report to either branch of the City Council upon the advisability of annexing any portion of Johnston or any other town desiring to become annexed to the City of Providence.

No. 160. Report of the Joint Special Committee upon the Proposed Annexation of a Portion of the Town of Johnston.

[Presented May 2, 1898.]

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

The Joint Special Committee appointed by the City Council to confer with Nathan M. Wright and others, a committee of the citizens of Johnston, relative to the proposed annexation of the compact part of Johnston to the City of Providence, and to consider the advisability of said annexation, desire to report as follows:

Your Committee invited the Johnston Committee to meet at the City Hall on February 4th and present any views

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or plans relating to the annexation of Johnston which they desired to have submitted to the City Council.

They submitted at that time a series of maps, and certain statistical information which accompany this report.

At the invitation of the Johnston Committee, your Committee visited the town of Johnston and inspected its school buildings and fire station on March 25th.

On March 31st, your Committee having considered the facts presented decided to recommend the annexation plan proposed by the Johnston Committee, provided the area was reduced, and provided that a new ward should not be established. The Johnston Committee conceded these two points, and then your Committee proceeded to consider what form of action should be taken.

Your Committee approve of the annexation of the territory delineated on the accompanying map. It includes 1,000 acres of 15,625 square miles and has a population of 8,200. Its voting population actually enrolled is over 1,400. Its taxable valuation is $5,117,755, and its per capita valuation $624.11. The average amount of taxable property to each individual in the territory annexed from the town of Cranston was only $524, and the average on the territory annexed from North Providence was $614. If this territory is annexed the City would assume a proportionate part of the town debt and certain school district debts, amounting approximately to $324,546. The receipts per annum from said annexed territory would be a sum not less than $98,000. This total includes taxes, $84,442.95, and receipts from the State for schools, from franchises and licenses. The territory contains six well equipped school buildings, and a fire station; is supplied with Pawtuxet water, and electric lights; is traversed by four lines of street cars, viz.: Hartford avenue, Plainfield street, Thornton, and Dyer avenue; and is a desirable residence section.

In view of the facts presented your Committee consider the annexation of the territory described advisable, and

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recommend the passage of the accompanying resolution expressing the approval of the City Council of the proposal for annexation.

All of which is respectfully submitted,

For the Committee,

JOHN W. ANGELL,

April 30, 1898. Chairman.

No. 161. Resolution Relative to the Proposed Annexation of a Portion of the Town of Johnston.

[Approved May 3, 1898.]

RESOLVED, That the proposal submitted by certain citizens of Johnston for the annexation of a portion of the town of Johnston to the City of Providence is hereby approved by the City Council, provided, the terms and conditions of said annexation shall be made satisfactory in the act of the General Assembly providing for said annexation.

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REPORT

OF THE

COMMISSIONERS

ON THE

ANNEXATION OF A PORTION

OF THE

TOWN OF JOHNSTON

TO THE

CITY OF PROVIDENCE.

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REPORT.

In the matter of the annexation of a part of the Town of Johnston to the City of Providence, June 1st, A. D. 1898:

The undersigned, Commissioners appointed under Public Laws of Rhode Island, Chapter 562, of May 6, 1898, Frederick E. Perkins and Rasselas S. Mowry by the Town Council of the Town of Johnston; Arnold Green and Clarence A. Aldrich by the Mayor of the City of Providence, and Charles A. Wilson by the Governor of the State of Rhode Island, report that they have attended to the duties imposed on them by the provisions of said Chapter 562:—

I. They find that the valuation of the Town of Johnston by the assessors of taxes of said town for the year A. D. 1897 was $7,037,575. They find that the valuation of the part of the Town of Johnston set off to the City of Providence, by said Chapter 562, based on the valuation of the Johnston assessors for the year A. D. 1897, is $5,035,430. They find that the valuation of the remaining part of the Town of Johnston, that is the present Town, based on the valuation of the Johnston assessors for the year A. D. 1897, is $2,002.145.

The proportion in assessed valuation which the portion set off to the City of Providence bears to the whole Town of Johnston before the division is therefore $\frac{5035430}{7037575}$, which equals the decimal .7155064.

The proportion in assessed valuation which the Town of Johnston after division bears to the said Town before division is therefore $\frac{2002145}{7037575}$, which equals the decimal .2844936.

II. On the fourth Wednesday in May, A. D. 1898, being May 25th, A. D. 1898 (Chapter 562, Sections 17 and 19), the act of division Chapter 562 was adopted. The Commis-

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sioners determined under Chapter 562, Section 4, that from said May 25th, A. D. 1898, the valuation of the City of Providence as a basis of the State tax is $173,023.147. That from said May 25th, A. D. 1898, the valuation of the Town of Johnston as a basis for the State tax is $1,779,479. (See note A.)

III. They find that the Town of Johnston has outstanding a tax warrant for $5,629.41 given to the General Treasurer of the State in payment of its share of the State tax due June 15, 1898. The Commissioners find that the City of Providence should assume of this sum $4,027.88, and the Town of Johnston the balance. This sum of $4,027.88 is included in the sum fixed in paragraph VI. to be paid by the City of Providence.

IV. The City of Providence paid the school teachers of the annexed district for the month of June, A. D. 1898. The school year consists of ten months. For the year ending July 1, 1898, the Town of Johnston received from the State of Rhode Island, of the money distributed according to the school census, the sum of $2,254.58. The school census of A. D. 1898 shows a population, in the Town of Johnston, between 5 and 15 years of age, amounting to 2,643; of this number 1,843 are in the district annexed to the City of Providence. The Commissioners therefore find that the Town of Johnston should pay to the City of Providence on account of this school fund the sum of $157.21.

This sum of $157.21 is included in the sum fixed in paragraph VI. to be paid by the City of Providence. (See note B.)

V. The Commissioners under Chapter 562, Section 8, find. A—That the Town of Johnston has a current contract made in A. D. 1893, to run for twenty years with the Narragansett Electric Lighting Company, by which the company pays to the town one-half of one per cent. of its gross income received in the town.

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As to this the Commissioners determine that the Town of Johnston should receive and retain from June 1, 1898, one-half of one per cent. of the gross income received from the geographical area of the town as existing from June 1, 1898, and should pay for the municipal lighting in such area. Further than this, the Commissioners cannot go, as the relations of said company with the City of Providence are fixed by current contracts between the company and the city.

B.—That the Town of Johnston has a current contract made in A. D. 1893, to run for twenty years with the Union Railroad Company, by which the company pays to the town one-half of one per cent. of its gross income received in the town. As to this the Commissioners determine that the Town of Johnston should receive and retain from June 1, 1898, one-half of one per cent. of the gross income received from the geographical area of the town as existing from June 1, 1898. Further than this, the Commissioners cannot go, as the relations of said company with the City of Providence are fixed by current contracts between the company and the city.

C.—That the Town of Johnston paid the City of Providence for water during the year January 1st, 1898, to January 1st, 1899, $3,115; of this sum the Commissioners find that $715 is for water in the portion of the town not annexed to the City of Providence, June 1st, 1898.

The Commissioners therefore find that the City of Providence should refund to the Town of Johnston $1,400.

This sum of $1,400 is included in the sum fixed in paragraph VI. to be paid by the City of Providence. (See note C.)

VI. The Commissioners find the debt of the Town of Johnston as it appears from the town treasurer's books, June 1st, 1898, to be:

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Outstanding Bonds, ...	$250,000 00
Interest to June 1st, 1898, . . .	3,333 33
Outstanding Notes, ...	130,051 60
Interest to June 1st, 1898, . . .	229 04
Judgment against the town unpaid, . .	1,741 80
Interest to June 1st, 1898, . . .	69 27
Outstanding bills against the town allowed by the Town Council, ...	17,331 80
Interest on one of these after demand and by agreement, ...	499 59
Outstanding bills valid and not allowed by Council up to June 1st, 1898, . .	933 24
	$404,189 67
Less sinking fund with interest up to June 1st, 1898, ...	46,791 55
Net debt, ...	$357,398 12

To which must be added the tax warrant spoken of in paragraph III. above.

Of this sum of $357,398.12 the Commissioners apportion $255,720.64 to be assumed and paid by the City of Providence, and $101,677.48 to be paid by the Town of Johnston. (See note D.)

But this apportionment of $255,720.64 must be increased by $4,027.88 (paragraph III. of this report); also by $1,400 (paragraph V. of this report), and must be reduced by $157.21 (paragraph IV. of this report). This done the resulting sum is $260,991.31.

The Commissioners therefore find that all "financial questions which arise as a result of the provisions of this act," Chapter 562, and which by Section 21 are to be settled by them, are settled as between the Town of Johnston and the City of Providence, by the assumption and payment by the City of Providence of $260,991.31 of the debt of the Town of Johnston, and the Commissioners determine and direct that the City of Providence pay the obligations of the Town of Johnston enumerated and set forth in Schedule A, accompanying this report and made a part thereof.

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VII. The Commissioners find that the valuation of the Franklin District, being School District No. 14, in the Town of Johnston, taking as a basis the valuation of the Johnston assessors for the year 1897, is $217,250, and that of this sum $108,550 remains in the town of Johnston, and $108,700 is transferred to the City of Providence by the division of the Town of Johnston.

The Commissioners find that the net debt of the Franklin district June 1, 1898, as it appears from the books of the treasurer of the District is $3,378.58, and that the Franklin district has no money on hand. The Commissioners therefore apportion this debt of $3,378.58 as follows: $1,690.46 shall be assumed and pald by the City of Providence, and $1,688.12 shall be paid by the said Franklin district. (See Note E.)

And the Commissioners find that all "financial questions which arise as a result of the provisions of this act," Chapter 562, and which by Section 21 are to be settled by them are settled as between the Franklin District of the Town of Johnston and the City of Providence by the assumption and payment by the City of Providence of $1,690.46 of the above named debt of the said Franklin District.

VIII. Chapter 562 has been amended by Public Laws of Rhode Island, Chapter 597, June 15, 1898.

The Commissioners, in accordance with Chapter 562, Section 15, and Chapter 597, determine and direct that the City of Providence at its own expense shall furnish to the Town of Johnston certified copies of such records of the Town of Johnston, and of such books, papers, and documents formerly belonging to the Town of Johnston as are set forth in Schedule B, accompanying this report and made a part thereof.

IX. The Commissioners express their thanks to Frank W. Tillinghast, Town Solicitor of the Town of Johnston, and to Albert A. Baker, Assistant City Solicitor of the City of Providence, for assistance cheerfully rendered the commission in the performance of its duties.

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SCHEDULE A.

The City of Providence to assume the payment of coupon bonds numbers 101 to 150 both inclusive, 192 to 250 both inclusive making the sum of	$109,000 00
Interest on above bonds to June 1st, 1898	1,453 33
Notes given by Town to Commissioner of the Sinking Fund, State of Rhode Island	50,000 00
Note given by town to Union Trust Co	60,000 00
" " " Laura M. Arnold	1,000 00
" " " Amey J. King	1,806 09
" " " Amy B. Waterman	927 00
" " " Rice City Church	500 00
" " " Mathew Fenner	700 00
" " " Eleanor S. Knight	350 00
" " " Henry G. Angell	2,830 98
" " " Eleanor F. Barnes	600 00
" " " Zilpha A. Arnold	1,337 53
" " " Clara J. Struthers	10,000 00
Interest on above notes to June 1st, 1898	229 04
Judgment of Wm. F. Bacon, unpaid with interest to June 1st, 1898	1,811 07

Bills.

Lister & Hopkins	1 25
G. R. Parker	75
Wm. H. Place	17 90
George F. A. Beane	79 36
T. W. Erskine	2 50
G. R. Parker, schools	3,217 33
E. F. Sibley	106 25
Leander F. Smith	8 80
F. E. Perkins with interest	6,198 75
Estate of G. G. Hicks	36 76
Wm. M. Harris	21 83
Joseph Gough	356 70
O. A. Carleton	115 00
A. H. Longfellow	127 50
James Moan	90 00
Manufacturers Lodge, I. O. O. F	466 67
Providence Journal Co	15 49
Evening and Sunday Telegram	9 88
John E. Conley	5 00
Wm. L. Thornton	6 00
James Davis	2,369 05
Providence Telephone Co	15 00
Whittemore & Colburn	91 00
John Furnesey	6 88
Amount carried forward	$255,910 69

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Amount brought forward	$255,910 69
The News Publishing Co.	2 00
Providence Gas Co.	85 91
Wm. P. Brownell	69 50
H. T. Winsor	12 00
T. S. Hughes	5 00
A. T. Rossiter	2 95
R. W. Crowther	9 00
Perry A. Fuller	30
John A. Waterman	78 00
Combination Ladder Co.	34 54
W. W. Fiske	104 50
John W. Lewis	50 60
Stanton & Farnum	15 00
Arnold Staples	35 00
Globe Gas Light Co.	710 40
Wm. A. Phillips	13 55
Sterry K. Luther	1 00
F. C. Spencer	7 00
J. T. & H. W. Farrell	37 50
Edwards & Angell	186 84
Marshall L. Fenner	5 00
Hiram Kimball	57 00
Narragansett Electric Lighting Co.	835 45
John McGlinchey	21 76
W. A. H. Grant	5 00
John Walch	358 33
James M. Shawcross	4 43
Robert Melvin	5 50
Edgar P. Holbrook	236 80
Banspach Brothers	7 56
James Harris	200 00
Charles H. Edwards	50 00
Henry O. Martin	140 67
Luke Hanley	5 00
A. W. Smith et al	474 00
J. T. Kenyon et al	49 00
George F. Aldrich	39 00
John F. Harlow	58 00
H. C. Calef	20 00
H. E. Nugent et al	30 00
Providence County Jail	12 86
Charles A. Barnard	60 50
J. C. Potter	13 20
Thomas Ballomo	2 00
List of Highway Claims	601 17
Highway bill, April, 1898	150 00
Eighth District Court	9 65
Amount carried forward	$260,823 16

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Amount brought forward	$260,823 16
A. B. Capron	3 24
R. S. Mowry	5 00
Thos. W. Penney	8 64
Rhode Island Hospital	48 00
Julius Gay	9 00
Caroline E. Nichols	30 00
T. & J. Sawyer	1 98
A. T. Remington	51 00
G. R. Bishop	11 29
	$260,991 31

SCHEDULE B.

1. All town meeting records.

2. Town Council records relating to the unannexed part of the Town of Johnston, i. e., relating to lay-out of highways, changes in them, grades of them, discontinuance of them, and all existing contracts.

3. Profiles of roads and streets in Johnston.
   Plats of roads and streets in Johnston.
   All plats of real estate in Johnston.
   Lines of school districts.
   Lines of the Town of Johnston.

4. Town Ordinances since April, 1896.

5. Personal Property mortgage records since December 31, 1891.

6. Vital statistics, births, deaths and marriages from December 31, 1849.

7. Liquor license book for 1898.

8. Dog license book for 1898.

9. All corporation returns.

10 Copies of reports of commissioners on lay-out of streets and roads, and grades in Johnston.

NOTE.—Probate records and real estate deeds and mortgages are provided for by Chapter 562, Section 15, and by Chapters 596 and 597.

(Signed) CHARLES A. WILSON,
ARNOLD GREEN,
CLARENCE A. ALDRICH,
FREDERICK E. PERKINS,
RASSELAS S. MOWRY.

PROVIDENCE, September 3, 1898.

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I, Elisha Dyer, Governor of the State of Rhode Island and Providence Plantations, certify that under Public Laws of Rhode Island, Chapter 562, of May 6, A. D. 1898, I appointed Charles A. Wilson, Commissioner.

(Signed,) ELISHA DYER,
Governor.

September 3, 1898.

PROVIDENCE, Sept. 6, 1898.

I, William E. Clarke, City Clerk of the City of Providence, and custodian of the records of the Town Council of Johnston, hereby certify that it appears from said records that on the 14th day of June, A. D. 1898, the said Town Council appointed Rasselas S. Mowry and Frederick E. Perkins, Commissioners, under Public Laws of Rhode Island, Chapter 562, passed May 6th, 1898, in relation to the division of the Town.

(Signed,) WILLIAM E. CLARKE,
City Clerk.

I, William C. Baker, Mayor of the City of Providence, certify that under Public Laws of Rhode Island, Chapter 562, of May 6, A. D. 1898, I appointed Arnold Green and Clarence A. Aldrich, Commissioners.

(Signed,) WILLIAM C. BAKER,
Mayor.

September 3, 1898.

NOTE A.—General Laws of Rhode Island, Chapter 29, Section 2, page 131, makes the valuation of the Town of Johnston, for the State tax, $6,254,900.—of this .2844936 is $1,779,479, .7155064 is $4,475,421, which last is added to the valuation of the City of Providence for State tax. General Laws of Rhode Island, Chapter 29, Section 2, page 130, $168,547,726 = making $173,023,147. =

NOTE B.—The amount received by the Town of Johnston, for the year ending July 1, A. D. 1898, being $2,254.58 for a population of which $\frac{1443}{2543}$ was annexed to the City of Providence June 1, 1898, we have $\frac{1443}{2543} \times \frac{1}{10} \times 2{,}254.58 = \$157.21$.

NOTE C.—$3115 \times \frac{7}{12} - 715 \times \frac{7}{12} = \$1{,}400$.

NOTE D.—357,398.12 x .7155064 = 255,720.64.
357,398.12 x .2844936 = 101,677.48.

NOTE E.—The debt of the Franklin School District is a 6 per cent. note, dated July 20, 1886, for $3,307.16, with interest from July 20, 1897, to June 1, 1898, making $\frac{171.42}{\$3{,}478.58}$ less interest paid Jan. 20, 1898, $\frac{100.00}{\$3{,}378.58}$.

$$\frac{108.700}{217.250} = .5003452.$$

$$.5003452 \times 3378.58 = \$1{,}690.46,$$
$$3{,}378.58 - 1{,}690.46 = 1{,}688.12.$$

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ANNUAL REPORT

OF THE

INSPECTOR OF MILK

FOR THE YEAR ENDING

JANUARY 31, 1898.

[Presented March 7, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

CITY OF PROVIDENCE.
OFFICE OF INSPECTOR OF MILK.

TO HIS HONOR THE MAYOR, AND THE BOARD OF ALDERMEN OF THE CITY OF PROVIDENCE:

GENTLEMEN: — I have the honor to report on the work performed by the department of Milk Inspection for the year ending January 31, 1898.

During the year, nearly 4,000 samples have been examined and analyzed; they were taken from milk-wagons, grocery-stores, bakeries, restaurants and lunch-carts, at as frequent intervals as the assistance afforded this department would permit, and were collected at all hours of the day, (the collector of samples often beginning his labors as early as one A. M.) Numerous samples have also been brought to the office to be analyzed by private citizens, store-keepers, etc.

CONDENSED MILK.

The department has examined all of the more common brands of condensed milk and so-called evaporated cream sold in Providence, and the results of these analyses have been published in the bulletin issued by the State Board of Health for July, 1897. The name "evaporated cream" is a deception, for at present there is no such product made. The contents of the cans vary from 13.5 oz. to 1 pound in weight, and the selling price from 7 cents to 17 cents a can. In all but four cases the samples were in good condition and suitable for food.

The results of the analyses show, in the majority of cases, if the sample is diluted as directed upon the label, that the

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resulting mixture will be much inferior to average milk; that the purchaser will pay more for the nutritive elements contained therein, than if he bought the same money worth of pure milk; that for infant feeding it is utterly unsuitable, being deficient in one of the most essential elements of nourishment, viz.: fat; and that it is also wanting in bone and tissue forming substances. It may be of interest to add that the poorer classes buy condensed milk largely on account of its apparent cheapness, and that it is used quite generally by them to nourish their infants.

PROSECUTIONS.

During the year, forty-six warrants have been issued for the possession and sale of adulterated milk. The complaints were disposed of as follows:

Parties to complaint, convicted and fined, ...	44
Parties to complaint, not found, ...	1
Parties to complaint, out of State, ...	1

The fines imposed on the above convictions, by the courts, amounted in all to $880. Additional complaints were brought against three milk dealers, one for selling without being registered in the milk inspector's book, one for assaulting the collector of samples, and one for obstructing the collector in the discharge of his duties.

REGISTRATION.

The number of licenses issued to milk-dealers exceeds those granted in 1896 by 126, the total number being 1,433, divided as follows:

Licenses granted for stores, etc., ...	987
Licenses granted for wagons, ...	446

Of the dealers who peddle milk from wagons, 44 per cent. conduct a dairy, and sell exclusively the milk produced by themselves. With a very few exceptions, (which were un-

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questionably adulterated milk) their product has proved to be of satisfactory quality in respect to its normal constituents. The milk sold by this class of dealers bears a marked contrast to that distributed by the peddlers, who do not produce it themselves.

It is a fact that the dealers who buy their milk, (constituting 56 per cent. of the milk peddlers) and who transact two-thirds of the business, are chiefly responsible for the community paying at least $54,000 for water to adulterate their milk supply in 1897.

I have explained in former reports that average cows' milk will permit of watering and skimming, and still come within the limits fixed by the Rhode Island Law. Hence the necessity of increasing the legal standard on milk.

IMPORTANCE OF MILK INSPECTION.

To illustrate the importance of milk inspection and a proper legal standard on milk, the following incidents may be taken as showing the effect which a proper system of inspection has on the public health.

During the year 1882, when there was no milk inspection in the city of New York, 3,673 more infants died than during 1883, when milk inspection was in operation. In the city of Washington in 1893, the death rate of colored infants under one year of age was 696 out of every thousand, and of white infants of the same age 273 out of every thousand, and the chemist of the superintendent of dairy products affirmed that 90 per cent. of the milk coming into Washington was robbed of part of its cream. In the absence of data, it is impossible to estimate the mortality that would exist among infants in this city if all the dealers took advantage of the Rhode Island standard which is much lower than that of the District of Columbia, under whose laws the city of Washington is governed.

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SKIMMED MILK.

In order to check the fraudulent sale of skimmed milk, early in the year the following circular was mailed to all milk peddlers :

"DEAR SIR: — Your attention is called to the provision of the General Laws of Rhode Island regulating the sale of skimmed milk.

Chapter 147, Section 7, provides that all milk from which the cream or any portion thereof has been removed, shall only be sold in or retailed out of a can, vessel, or package *distinctly marked upon the outside of such package, can, etc.*, the words *skimmed milk* in letters not less than one inch in length in a conspicuous place above the centre of such can, etc.

Whoever violates the provisions of Section 7 shall be punished by the penalties provided in Section 9.

The can, measure, etc., containing skimmed milk must have the words skimmed milk *marked upon the vessel itself;* and the department will not recognize a can carrying a *detachable* collar, tag, etc., bearing the words skimmed milk as being marked in accordance with the provisions of Section 7.

The marking of cans, measures, etc., must be distinct and conspicuous, and this department does not admit that indented tin is such a mark as the law requires, and it will not pass as distinct any marking the *letters of which are of the same color as the background upon which they are placed.*

It is proposed to give milk dealers a reasonable time to have their cans properly marked, and this is to give notice that after June 1st, 1897, the marking of cans and measures must be in strict compliance with the statutes."

It was the practice of some dealers to place an easily removable tin collar marked "skimmed milk" around the necks of their cans while in their possession. The collars were legible only to the practiced eye, and being easily removed were taken off before or at the time of delivery. The

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purchaser would thus not be aware from any mark on the can that he was receiving inferior milk, and as a sample taken from a can so marked, would have to be judged according to the standard of skimmed milk by this department, the dealers, though practicing a fraud, were exempt from prosecution.

The effect of this circular has been such that the dealers have abandoned marking their cans with detachable collars, and in most cases have complied strictly with the law, but in some instances they have resorted to another method of evading the law; where formerly they would simply remove the collar at the time of sale, they now transfer the milk from a "marked can" to one that is not marked. Thus the consumer is as ignorant of receiving adulterated milk as before.

From my knowledge of the men and their methods, I believe that the sale of skimmed milk under the existing law will continue to be the cause of many people paying for water rather than milk, and I recommend that more stringent measures be adopted regulating its sale.

CONSUMPTION OF MILK.

The consumption of milk in Providence for the past year averaged 78,000 quarts per day, amounting to 28,470,000 quarts per annum. Valued at 6 cents per quart, (the average price) the consumers paid for their milk $1,708,200.

The consumption of cream has greatly increased during the last three years, and it is steadily growing larger. The amount sold last year exceeded 180,000 quarts, which valued at 50 cents per quart, amounts to $90,000.

The above figures clearly show the magnitude of the business, and when we consider that this community expended one million, seven hundred and ninety-eight thousand dollars in a single year for milk, and that fifty-four thousand dollars of this was thrown away in purchasing valueless water, and that without milk inspection the city is largely at the mercy of these men, the importance of having this department of

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the city government amply provided with assistance and funds sufficient to protect the interests committed to its care, becomes apparent. Also the necessity of having the milk laws of the city and State so framed that the dishonest milk man will be debarred from further preying upon the public. I therefore earnestly recommend that this department be enlarged, and that the necessary legislation, which will permit its employing two additional collectors of samples be secured.

A bill is to be presented at the present session of the Legislature, authorizing the City of Providence to annually license all milk dealers, and to charge a fee for the same, giving to the Board of Aldermen the power to revoke licenses for any violation of the milk law. This measure, if secured, will greatly assist the department in suppressing the sale of adulterated milk, and will prove of inestimable value to the residents of our city.

CLEAN MILK.

The milk supply has been treated thus far from a commercial standpoint, but the sanitary side of the question is of vastly more importance. In this city, cows' milk is the sole food of not only a large portion of the infant population, but also of many invalids as well, and to what extent the prevailing, unsanitary, and slip-shod methods of conducting the dairy and milk business affect the public health, can only be determined by comparing the death rate under existing with that under changed conditions.

The art of dairying has for the last few years been the subject of earnest scientific study, and the fund of knowledge now possessed is the result of the labors of all civilized countries. To-day there is no excuse for the sale of unwholesome milk.

The subject of pure food supplies, and means of checking the illegitimate practice of food adulteration is receiving the attention of many countries, which are putting into effect

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national pure food laws. It points to the fact that in the future, *more* rather than *less* importance will be given to food supplies. This subject is receiving attention by our National Government. House Bill No. 5,441, introduced December 18, 1897, by Hon. Marriot Brosius of Pennsylvania, will soon be considered by the committee of the House, and a call has been issued for a Pure Food Congress to assemble at Washington, March 2d, 1898, to urge the adoption of a Pure Food law by Congress.

At the last session of the House of Commons in 1897, there was introduced a re-draft of the Sale of Foods and Drugs Act. The present one has been in effect in Great Britain for the past twenty years.

Milk is acknowledged to be pre-eminently the most important food of man. Some authorities state that only one mother in six is capable of nourishing her offspring for a year, and as its value is also influenced largely by the care taken in producing it, great importance should be given to these points.

The means best adapted to maintain a supply, uncontaminated by disease-producing organisms, and obtained from animals healthy in every respect, presents a problem second to none in importance with which Boards of Health have to deal.

Without going too much into detail, I will call your attention to what is being done in neighboring States and cities to safeguard their milk supply, and will outline a proper method for its production.

New York city adopted a system in January, 1896, known as the "Permit System," which has worked most satisfactorily and protects the community from both adulterated milk and unwholesome milk. Before engaging in the business of selling or producing milk in the city of New York, the parties are required to receive a permit from the Board of Health. Each applicant has to show satisfactory evidence that he is conducting the business in a sanitary

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manner, and that he is observing the rules and regulations of the Board of Health. These permits are not transferable, and are revokable at the pleasure of the Board. The city has also adopted measures for the systematic examination of all milch cows kept within the city limits, with special reference to animals suffering from tuberculosis, and requires that all cows shall successfully stand the tuberculin test, and that the premises shall be in a good sanitary condition before a permit is issued the owner to sell milk.

By the co-operation of local sanitary authorities in districts supplying milk to the city, and by the establishment of the "Permit System," New York has to-day one of the purest milk supplies in the country.

The city of Philadelphia passed an ordinance in 1894 which requires all milch cows, supplying milk to the city, to undergo the tuberculin test under penalty, in non-compliance, of declaring the milk unwholesome.

Portland, Maine, passed an ordinance in July, 1897, forbidding the sale of any milk, unless the cows from which it had been obtained had been examined (by the tuberculin test or otherwise), by a veterinary approved by the Board of Health, who shall certify to the healthy condition of the cow. Penalty is provided for failure or neglect to observe this ordinance.

New Jersey by statute law provides that the local Boards of Health of any city, shall by ordinance require registry of all cattle used as milch cows kept within the limits of said city. No such registry shall be made by any Board of Health until after examination of the stable in which said cattle are kept, and until it is known to the satisfaction of the Board that they are in good sanitary condition, and that whenever any local Board of Health has reason to suspect the existence of any contagious disease among cattle, or a disease that may be a risk or danger to the milk or food supply, they shall order the inspection of all cattle that are kept for milk production by a competent veterinary.

Massachusetts at its next session of the legislature will

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act upon a set of regulations to provide that commonwealth with wholesome milk.

MILK PRODUCTION.

If wholesome milk is to be supplied to our city, the following regulations *must* be observed and enforced:

The utmost cleanliness about the cattle, their attendants, the stable, the dairy, and all utensils.

A person suffering from any disease, or who has been exposed to a contagious disease, *must* remain away from the cows and the milk. The cows should be healthy and clean, should be examined at least twice a year by a skilled veterinary, and all animals suspected of being in bad health should be promptly removed from the herd and the milk rejected. No animal should be added to a herd until certain that it is free from disease, especially tuberculosis. The cows should have access to pure water at least twice a day, and their feed should be of good quality, free from dirt and not in a decaying or musty condition, and no substance in a state of fermentation or putrefaction or any unwholesome food should be fed, (e. g.) wet and partially soured brewer's grain.

The entire body of the cow should be cleaned daily, the stable in which they are kept situated on well drained ground, and should be well lighted and ventilated, having at least 600 cubic feet of air space for each cow. The stable should have tight floors, and it is preferable to have no cellar underneath, nor any storage loft above. Manure should be removed from the stable one hour before milking, and the barn thoroughly aired. If the barn has a cellar, the manure should not be stored there, but should be deposited outside the building and romoved to a distance as often as possible.

CARE OF THE MILK.

All utensils that come in contact with the milk should be thoroughly washed and sterilized. Immediately before

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milking, the stable floor should be sprinkled with water in order to lay the dust. The teats and bags of the cows, and the hands of the milkers should be washed and dried before milking. The cows should be milked with *dry hands*. The milk should never come in contact with the milkers' hands, and they should wear clean outer garments, used only while milking and kept in a clean place at other times. Milk should be excluded from cows at least fifteen days before and five days after parturition. If a portion of the milking is stringy, bloody, or of an unnatural appearance the whole of the milk should be thrown away.

Immediately after the milk is drawn from the cow, it should be strained, aeriated and cooled to a temperature of 50 degrees F. in a clean atmosphere, free from dust and stable odors, and should be bottled, stored in a clean place, and kept cold until delivered. It should never be transported or sold from a dirty wagon.

THE WAY THE BUSINESS IS CONDUCTED.

That few of the producers or peddlers are conducting the milk business, with much regard to the demonstrated methods necessary to secure wholesome milk and uncontaminated milk is a regretable fact, and no greater service could be rendered the people of this city, than for the proper authorities to put in force ordinances that will compel the producers and dealers to furnish pure milk.

Many of the peddlers are careless, ignorant, and unreliable, and conduct their business in a very unsanitary manner, and are not likely to change their methods unless obliged to do so.

The majority of the storekeepers selling milk pay little regard to its quality and less attention to its care.

The N. Y. Board of Health has condemned the manner in which milk is handled by the greater number of Providence dealers. It does not permit milk to be transferred from a can to a measure or jar on the street, and insists that it shall

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be handled in a manner, which will exclude city dust and dirt from it.

ESTABLISHMENT OF MODERN DAIRIES.

That one firm at least is complying with all the requirements necessary to produce sanitary milk, and have placed it upon the market, is most gratifying to all interested in the improvement of our milk supply.

Several other concerns have established modern dairies, and are following the necessary regulations to a greater or less extent.

The success that has met these new enterprises, and the support given them by the public, has had a most beneficial effect on the milk business.

The dealers who formally would not alter their antiquated methods, have been forced to realize that there is reason and sense in the ones pursued by these concerns, and that the product of a good herd, healthy in every respect, well fed and cared for, that has received care in all particulars from the moment it came from the cow, commands a higher price, and that the public are willing to pay for the additional expense incurred in producing such milk.

From the facts brought out it is evident that the general suppy is far from what it should be; but we have a source of comfort in knowing that more attention has been given the past year to the proper production and care of milk than ever before, and in general the public have been better served.

Respectfully submitted,

CHAS. A. POTTER,

Inspector of Milk.

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REPORT

OF THE

Joint Special Committee

UPON

TRAIN SHEDS,

SUBMITTING A PLAN FOR THE LAYOUT OF

Exchange Place,

AND THE

REMOVAL OF THE OLD PASSENGER STATION.

[Presented June 28, 1898.]

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898

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REPORT.

To the Honorable the City Council of the City of Providence:

The Joint Special Committee which was directed by Resolution No. 18, approved January 4, 1898, "to prepare and submit to the City Council a plan for the treatment of Exchange Place and the land adjoining the new Railroad Passenger Station, including the disposition of the old Passenger Station," respectfully beg leave to report:

That they have given this subject very careful attention, have held several public hearings thereon, and have examined various plans that have been submitted for the general improvement of the territory in front of the new Passenger Station. At the public meetings held by your Committee there was quite a large attendance and a very general expression of opinion was obtained as to what disposition should be made of this land. It was suggested that the City should sell a portion of the territory known as Exchange Place and also the land adjoining the new Station for business purposes. One public spirited citizen advocated the use of all this territory for public purposes, and submitted an elaborate plan which he had prepared showing this land divided up into highways and small parks with a mall in the centre of Exchange Place. The main features of this plan appeared to meet the approval of nearly all the persons who examined it and a communication was also received from the Providence Medical Association stating that in their opinion this land should be reserved for public uses as an open park or square.

The concensus of public opinion appearing therefor to favor the retention of this property for public uses your Com-

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mittee then requested the City Engineer to prepare a plan for the lay-out of this land.

Mature study of this plan led your Committee to the conclusion that it was the duty of the City Council at the present time to reserve this land for such uses as existing conditions shall hereafter determine. To open this land for business purposes would disturb real estate values and might precipitate legal complications while to definitely dedicate it for park purposes would entail an outlay that your Committee do not feel justified in recommending.

Your Committee therefore recommend:

1st.—That no part of this land be given up for business purposes.

2d.—That the old passenger station be torn down and removed as soon as possible after November 1, 1898.

3d.—That Exchange Place on the Southerly side from its intersection with Dorrance street to Burnside Bridge be laid out and established as a public highway not less than seventy feet wide including side-walks; and that Washington street be continued from its intersection with Dorrance street to Exchange Bridge, at a width of not less than seventy feet, including side-walks.

4th.—That the remaining portion of Exchange Place between Dorrance street and Exchange street as extended, and Exchange Place and Washington street as extended, be left open for public use, with proper cross-walks and places of refuge as shown on the accompanying plan.

5th.—That the remaining territory of Exchange Place from its Southerly boundary and Washington street and the Westerly line of Exchange street as extended be left open until otherwise ordered.

6th.—That Exchange street be extended to Washington street as extended.

7th.—That the approach on the South side of the new Passenger Station, and extending Easterly and Southeasterly

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be continued at its present width until it intersects with the proposed extension of Washington street.

8th.—That the land in front of said approach, and in front of said new Passenger Station, be left open substantially as shown on the accompanying plan, until otherwise ordered.

9th.—That West Exchange street be widened to a width of eighty feet between Gaspee street and Washington street as shown on the accompanying plan.

10th.—That the remaining portion of the land adjoining said new Passenger Station, between West Exchange street and the West approach to the Passenger Station be left open until otherwise ordered.

11th.—That a proposed site for a post office be reserved on Exchange Place; that a cross-walk be located at the Butler Exchange; that Exchange Bridge shall not be widened, and that no paths or park features be laid out on this land.

12th.—That the plan herewith submitted be approved and adopted by the City Council.

Naturally the first inquiry will be what will it cost to carry out this project as recommended by your Committee. To tear down and remove the old passenger station it is estimated will cost about $5,000.

To pave Exchange Place with granite blocks the City Engineer estimates will cost $63,849.75 and with asphalt pavement $55,529.85. To pave from the North line of Washington street as extended and the East end of the approach on the South side of the new depot will cost $21,044.12 and the cost of completing the Providence river walls at the present railroad crossing at the Station of the Three Ones will be $31,737.00. If it should be decided to move the monuments now in Exchange Place to the Park area in front of the new Station the City Engineer estimates that it will cost $8,690.00 to do this work.

Your Committee do not believe that it will be advisable to expend all of this money on this territory at the present time

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and they believe that only so much of this work should be done now as will insure safety to the public and at the same time render this area reasonably attractive.

For these reasons they submit the accompanying Resolutions providing for the removal of the old passenger station, and for the layout and improvement of Exchange Place and unanimously recommend their passage.

Respectfully submitted, for the Committee,

WILLIAM C. BAKER,

Mayor and Chairman.

June 24, 1898.

[For Resolutions see printed Resolutions of the City Council, Nos. 256 and 257, series 1898.]

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SIXTY-SECOND QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1898.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., July 1, 1898.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter IV. of the ordinances, the Commissioner of Public Works respectfully presents the sixty-second quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1898:

WATER WORKS.

May 18th, the proposal of John R. White & Son to furnish and deliver at Hope Pumping Station 400 tons of egg coal at $4.75 per ton, was accepted.

June 14th, the proposal of R. B. Little & Co. to furnish and deliver Georges Creek Cumberland coal at Pettaconset Pumping Station for one year from July 1, 1898, at $3.55 per ton, was accepted.

The average daily consumption of water during the last quarter was 8,915,433 gallons.

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Water pipes were laid during the quarter as follows:

30-INCH.

In Plainfield street, in town of Johnston	1,435.26 feet.

12-INCH.

In East and Mt. Pleasant avenues	2,495.53 feet.

10-INCH.

In Laban street, in town of Johnston	6.67 feet.

8-INCH.

In Ernest street and Taber avenue; in Plainfield street, in town of Johnston; in Narragansett boulevard and Pontiac avenue, in town of Cranston	3,336.52 feet.

6-INCH.

In Aplin and Bugbee courts; Beaufort, Bell, Berkshire, Bissell, Capwell, Case, Cedar, Chaucer, Depew, Dike, Eighth, Fairview, Harold, Larch, Lloyd, Oak, Peace, Powdermill, Roanoke and Rowley streets; Grosvenor, Lorimer, Oriole, Summit and University avenues; in Laban, Saunders, Vermont, Waterman and Williams streets, in town of Johnston; in Asia, Beckwith, Grace and Smith streets; Arnold, Franklin, Orchard and Victoria avenues, in town of Cranston	6,608.15 feet.
Total	13,882.13 feet.

or, 2.629+ miles.

Water pipes were removed or abandoned during the quarter, as follows:

8-INCH.

From Park avenue, in town of Cranston	30.45 feet.

6-INCH.

From Mt. Pleasant avenue; from Laban and Waterman streets, in town of Johnston	1,961 59 feet.
Total	1,992.04 feet.

or, .377+ mile.

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Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	61,328.30 feet.
24-inch	43,553.03 feet.
20-inch	9,626.59 feet.
16-inch	34,084.95 feet.
12-inch	92,817.16 feet.
10-inch	15,057.14 feet.
8-inch	259,289.92 feet.
6-inch	1,124,249.94 feet.
Total	1,650,091.03 feet.

or, 312.517+ miles.

Statement of sizes and lengths of pipe laid for the Special Water Service for Fire Protection, since the commencement of the work:

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total	29,408.71 feet.

or, 5.569+ miles.

Five fire hydrants have been set during the quarter, one in each of the following locations:

Berkshire street, south side, on east building line of Douglas avenue.
Mount Pleasant avenue, east side, north-east corner of Fairview street.
Oak street, north side, 314 feet east of gate on east line of Troy street.
Pontiac avenue, Cranston, north-east side, on north-east building line of Beckwith street.
Wellington street, Cranston, east side, 583 feet south of Monument street.

The total number of fire hydrants, exclusive of hydrants for special service for fire protection, is now seventeen hundred and ninety-five — seventeen hundred and twenty-one flush, and seventy-four post hydrants.

One fire hydrant was set during the quarter, on Special Water Service for Fire Protection, at the following location:

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Stevens street, south side, forty-three feet west of west line of Bark street.

The total number of fire hydrants on the Special Water Service for Fire Protection is ninety.

During the quarter, two hundred and twenty-one water meters were set, of which number forty-one were to replace other meters. The use of three meters was discontinued.

The following meters were in use at the close of the quarter:

Kind.	Size.								Total.
	⅝-in.	¾-in.	1-in.	1½-in.	2-in.	3-in.	4-in.	6-in.	
Ball & Fitts, piston	3,180	630	153	25	7	.....	.....	.....	3,995
Ball & Fitts, rotary	.....	.....	14	15	1	3	2	.....	35
Crown	7,472	766	235	106	28	15	17	.....	8,639
Empire	70	12	8	7	3	.....	.....	.....	100
Fales, Jenks & Sons	.....	.....	1	.....	.....	.....	.....	.....	1
Gem	.....	.....	.....	.....	3	10	7	1	21
Thomson	2,683	372	76	54	22	7	7	4	3,225
Trident	28	.....	.....	.....	.....	.....	.....	.....	28
Worthington	1	1	.....	.....	1	.....	1	.....	4
	13,434	1,781	487	207	65	35	34	5	16,048

Seven plumbers' licenses were issued during the quarter, making the total number one hundred and fifteen, all of which expire December 31, 1898.

Nine hundred and sixty-four permits to do plumbing work were issued during the quarter.

One hundred and eighty-two applications for water were made during the quarter, making the total number June 30, 1898, twenty-two thousand seven hundred and one.

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The number of new service stops opened during the quarter was one hundred and sixty-five.

The total number of service stops opened to June 30, 1898, inclusive, was twenty-two thousand and five. The number in actual use June 30, 1898, was twenty thousand three hundred and twenty-three.

The amount of bills approved on account of water works from April 1 to June 30, 1898, inclusive, was:

For construction and extension, . . . $15,135 83

Classified as follows:

Laying water pipes	$5,064 65	
Cast iron water pipe	4,922 33	
Special castings	1,318 06	
Laying service pipes	805 62	
Patterns for special castings	598 88	
Stop valves	564 80	
Labor on and carting pipe	528 58	
Fire hydrants, boxes, and covers	396 00	
Taps and stops	347 60	
Tools	189 99	
Barn expenses	185 01	
Wharf salaries	180 00	
Horses, wagons, harnesses, etc	34 31	
	$15,135 83	

For maintenance, ... $20,149 25

Classified as follows:

PETTACONSKT PUMPING STATION.

Coal and wood	$2,100 54	
Engineers	484 92	
Sundries	464 70	
Firemen	392 40	
Superintendence	276 00	
Care of grounds	126 38	
Oil, waste and packing	63 93	
Barn expenses	50 47	
Labor on fuel	34 80	
Lights	14 51	
Worthington high-duty pumping engine	13 07	
Cornish engine house	9 15	
		$4,030 87
Amount carried forward		$4,030 87

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Amount brought forward		$4,030 87
Sockanosset Reservoir.		
Sundries	$205 26	
Watchman	168 00	
		373 26
Hope Pumping Station.		
Coal and wood	$1,900 00	
Firemen	386 40	
Engineers	276 00	
Care of grounds	132 00	
Repairs on boilers	69 02	
Lights	67 41	
Oil, waste, and packing	27 06	
Sundries	21 40	
		2,879 29
Hope Reservoir.		
Watchman	$189 00	
Sundries	163 08	
		352 08
Fruit Hill Reservoir.		
Sundries	$414 97	
Watchman	189 00	
		603 97
Pipe Line and Service Stops.		
Repairs	$2,861 21	
Superintendence — salaries	782 00	
		3,643 21
Meter Department.		
Water meters	$3,970 31	
Setting and repairing meters	1,880 86	
		5,851 17
Miscellaneous.		
Clerks' and inspectors' salaries	$1,326 84	
Prevention of defilement of the Pawtuxet	549 99	
Barn expenses	222 69	
Horses, wagons, harnesses, etc	115 48	
Analyses of water	90 00	
Sundries	57 62	
Pipe yard, office expenses	22 43	
Real estate at Pawtuxet	17 50	
Public drinking fountains and troughs	11 60	
Telephone lines	1 25	
		2,415 40
		$20,149 25

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The amount of expenditures from April 1 to June 30, 1898, inclusive, was . $35,285 08

The total expenditures to June 30, 1898, inclusive, were $8,706,475 26

The *net* expenditure for construction and extension from April 1 to June 30, 1898, inclusive, was	$14,741 34
The *net* expenditure for construction and extension to June 30, 1898, inclusive, was	$6,408,418 29
The *net* expenditure for maintenance from April 1 to June 30, 1898, inclusive, was	$14,814 25
The *net* expenditure for maintenance to June 30, 1898, inclusive, was	$1,444,639 74

The value of the water works system January 1, 1898, as estimated by the city engineer, was as follows:

Pettaconset pumping station	$340,694 00	
Hope pumping station	143,784 15	
Sockanosset, Hope, and Fruit Hill reservoirs	751,629 00	
Main lines and distribution pipes	2,764,100 98	
Real estate in Pawtuxet and Lincoln	15,975 00	
Tools and supplies	31,866 70	
		$4,048,049 83

Bills deposited with the city treasurer for collection from April 1 to June 30, 1898, inclusive, amounted to . . . $57,359 15

As follows:

Water	$51,389 46
Water meters	3,684 25
Setting and repairing meters	1,650 85
Rent of real estate	168 00
Permanently closing service stops	60 00
Penalties	44 00
Examination and repairs of pipe line	30 75
Labor and material, laying service pipes, etc	331 84
	$57,359 15

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During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $63,334 91

As follows:

Water	$57,561 42
Water meters	3,618 00
Setting and repairing meters	1,475 50
Rent of real estate	168 00
Permanently closing service stops	60 00
Penalties	44 00
Examinations and repairs on pipe line	13 50
Labor and material, laying service pipes, etc	394 19
	$63,334 91

SEWERS.

During the quarter ending June 30, 1898, five hundred and forty-six permits were issued to drain layers — three hundred and thirty-five for new work, and two hundred and eleven for extension and repairs of drains.

Seven drain layers' licenses were issued during the quarter, making the total number forty-nine, all of which expire December 31, 1898.

June 14th, the proposals of R. B. Little & Co. and Providence Coal Co., for each to furnish and deliver at Ernest Street Pumping Station one-half the Sterling coal required for one year from July 1, 1898, at $2.90 per ton, were accepted.

June 16th, the proposal of Coffin Valve Co., of Neponset, Mass., to furnish and deliver the gates required for the

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precipitation tanks of the Improved Sewerage System, was accepted. Amount, $3,150.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer, as follows:

Whitmarsh, Gilmore, D, and Booth streets	$3,478 52
Peace and Bucklin streets	5,155 50
Miner, Sayles, and Oxford streets and Lexington avenue	5,354 03
Huntington avenue, Carter and Vineyard streets	5,883 66
Atwells avenue	892 01
Broad street (west side)	649 22
Vale and Danforth streets	2,924 52
Pekin and Osborn streets and Franklin avenue	7,889 35
Chaffee street	2,034 66
Arlington avenue	5,592 58
Fillmore and Oregon streets	2,848 10
Bacon, North Main, Randall, and Printery streets	6,877 14
Hamilton, Irving, and Melrose streets	80 00
Peace street	2,687 56
South Angell street and Butler avenue	2,417 56
Chalkstone avenue, from North Davis street to Douglas avenue.	2,375 64
Chalkstone avenue, from near Claremont street to Winthrop	2,656 90
Douglas avenue	3,161 87
Gallup street	1,277 14
Smith, Violet, and Ayrault streets	7,638 67
Smith street	7,436 02
Wayne, Danforth, and Mathew streets	3,532 27
Irving and Humboldt avenues	4,873 96
Blackstone boulevard (east side)	294 90
Wickenden street	376 17
Link street	656 98
Princeton avenue	1,693 45
Calder and Madison streets	2,963 40
Doyle avenue	6,249 50
Prospect street	1,098 41
Halsey street	484 10
Power and Roger streets	1,578 91
Waterman street	2,177 47
Henderson street	3,463 75
Garden street	164 12
Total	$108,918 04

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April 28th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials, or rock excavation.]

To Edward W. Everson.

No. of resolution.	Date of approval.				
572.	Dec.	20,	1895,	*Section 21, Moshassuck Division, Improved Sewerage System,*	$44,094 90
572.	"	"	"	*Section 22, Moshassuck Division, Improved Sewerage System,*	26,939 80

To James J. Newman.

202.	May	20,	1898,	*Section 23, Woonasquatucket Division, Improved Sewerage System,*	$19,732 90

May 16th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

To Frank Gammino.

No. of resolution.	Date of approval.				
394.	Oct.	5,	1897,	*Broad and Rugby streets,*	$2,859 10
416.	"	26,	"	*Columbian avenue and Roger Williams Park,*	3,049 31
152.	May	3,	1898,	*Baker street, from Eddy to Broad,*	1,192 26
153.	"	"	"	*Public street, from Eddy to Allens avenue,*	1,838 01
154.	"	"	"	*Sayles street, from Ocean to Plain,*	678 24

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No. of resolution.	Date of approval.				
155.	May	3,	1898,	*Trenton street, from Ives to Gano,*	$966 92
156.	"	"	"	*Washburn and Common streets,*	756 45
157.	"	"	"	*Broad street, east side, from Buckley street to end of sewer in Potters avenue,*	390 11

June 1st, a contract for the construction of the following sewer was awarded, namely:

To William H. Sherman.

No. of resolution.	Date of approval.				
189.	May	20,	1898,	*Babbitt street, from Black to Quaid,*	$502 77

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution.	Date of approval.				Date of completion.
572.	Dec.	20,	1895,	*Moshassuck River and West River Divisions, Improved Sewerage System, Section* 20,	May 7, 1898.
153.	May	3,	1898,	*Public street, from Eddy to Allens avenue,*	June 27, 1898.
154.	"	"	"	*Sayles street, from Ocean to Plain,*	June 20, 1898.
157.	"	"	"	*Broad street, east side, from Buckley street to end of sewer in Potters avenue,*	June 25, 1898.
189.	"	"	"	*Babbitt street, from Black to Quaid,*	June 25, 1898.

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At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

No. of resolution.	Date of approval.	
406.	July 15, 1889,	*Section 2, Sewage Precipitation Tanks, Improved Sewerage System.*
572.	Dec. 20, 1895,	*Section 21, Moshassuck Division, Improved Sewerage System.*
202.	May 20, 1898,	*Section 23, Woonasquatucket Division, Improved Sewerage System.*

Work upon the following lateral sewer was in progress at the close of the quarter, namely:

No. of resolution.	Date of approval.	
152.	May 3, 1898,	*Baker street, from Eddy to Broad.*

Work upon the following sewers, completing the work ordered by the city council, had not commenced June 30, 1898, namely:

No. of resolution.	Date of approval.	
572.	Dec. 20, 1895,	*Section 22, Moshassuck Division, Improved Sewerage System.*
394.	Oct. 5, 1897,	*Broad and Rugby streets.*
416.	" 26, "	*Columbian avenue and Roger Williams Park.*
155.	May 3, 1898,	*Trenton street, from Ives to Gano.*
156.	" " "	*Washburn and Common streets.*
190.	" 20, "	*Mill street, east side, from North Main to Bark.*
211.	June 10, "	*Parnell street, from its northerly termination to Atwells avenue.*

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The amount of bills approved on account of sewers from April 1 to June 30, 1898, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation	$13,218 57	
Improved sewerage appropriation	39,146 80	
		$52,365 37

Charged as follows:

Material	$11,048 49
Salaries of assistant engineers	2,743 50
Contract reservations	699 00
Sundries	549 83
Testing cement	270 71
Additional catch-basins	214 28
Patterns for sewer castings	115 00
Sundries, improved sewerage system	104 00
Tools	14 76
Experiments in filtration at Ernest street station	10 50
Sewer in Atwells avenue, from Woonasquatucket river to Valley street	112 88
Sewer in Babbitt street, from Black to Quaid	603 91
Sewer in Baker street, from Eddy to Broad	734 59
Sewer in Broad street, east side, from Buckley to end of sewer in Potters avenue	416 82
Sewer in Public street, from Eddy to Allens avenue	2,041 52
Sewer in Sayles street, from Ocean to Plain	690 42
Building roadway from Ernest street station to precipitation tanks	775 79
Carriage shed at Ernest street station—to build	15 75
Connecting lateral sewers with improved sewerage system	92 00
Grading grounds at Ernest street station	1,418 74
Sewer in Manton avenue and King street	1,355 75
Sewer in Moshassuck Division, Section 20	6,903 45
Sewer in Moshassuck Division, Section 21	5,789 65
Sewer in Woonasquatucket Division, Section 23	5,422 61
Sewage precipitation tanks—to build	10,221 42
	$52,365 37

For maintenance, ... $12,988 10

Charged as follows:

Cleaning basins and sewers	$4,001 97
Repairing basins and sewers	2,894 23
Cleaning and repairing old drains	1,078 79
Inspection of connections	651 07
Amount carried forward	$8,625 06

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Amount brought forward	$8,626 06
Tools	475 03
Salary—superintendent	408 00
Barn expenses	303 41
Horses, wagons, harnesses, etc.	209 84
Sundries	139 38
Cleaning private connections	42 00
Office expenses	29 99
Filling cisterns, etc.	12 00
	$10,245 71

ERNEST STREET STATION.

Engineers	$671 67
Cleaning screens	492 31
Firemen	393 60
Coal and wood	353 67
Supplies	240 85
Repairs on engines	187 40
Cleaning and repairing pumps	186 62
Care of grounds	61 64
Repairs on buildings	53 11
Care of buildings	51 74
Lights	48 40
Repairs on gate houses	1 38
	$12,988 10

The *net* expenditure for construction of sewers to June 30, 1898, inclusive, was $6,124,946 39

The *net* expenditure for maintenance of sewers to June 30, 1898, inclusive, was 571,821 16

Bills deposited with the city treasurer for collection from April 1 to June 30, 1898, inclusive, amounted to $584 04

As follows:

Miscellaneous work	$248 31
Cleaning private connections	69 25
Pumping out cellars, etc.	55 98
Setting track grates for Union Railroad Company.	22 76
Old manhole frame and cover	2 40
Sewer material	151 02
Laying drains to curbstone	34 32
	$584 04

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During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $547 41

As follows:

Miscellaneous work	$248 31
Cleaning private connections	69 25
Setting track grates for Union Railroad Company	22 76
Pumping out cellars, etc	19 35
Old manhole frame and cover	2 40
Sewer material	151 02
Laying drains to curbstone	34 32
	$547 41

HIGHWAYS.

Five permits to open streets were issued during the quarter.

During the quarter, statements of the cost of concreting sidewalks in sundry streets, done under authority conferred by the City Council by Resolution No. 446, approved Sept. 27, 1895, with ten per centum added to cover the cost of assessing and collecting, were certified to the assessors of taxes, amounting to the sum of $1,588.62.

During the quarter, the following work was completed:

Sidewalks to be Curbed and Gutters Paved.

Date of order.	
Sept. 16, 1897,	*Miner street, from Potters avenue to Sayles street.*
Oct. 21, "	*Irving avenue, from Taber, to Blackstone boulevard.*

To Macadamize.

April 7, 1898,	*Sprague street, from Elmwood avenue to Dexter street.*

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The following work was in progress June 30, 1898, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
May 16, 1895,	*Francis street, from Cove and Exchange place to Gaspee street:* — three-fourths completed.
" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.
May 20, 1897,	*Francis street, from West Exchange to bridge over the Woonasquatucket river:* — one-half completed.
July 1, "	*Approaches to new passenger station:* — nearly completed.
Sept. 16, 1897,	*Peace street, from Elmwood avenue to Bucklin street:* — gutters to be concreted.

TO BE PAVED WITH GRANITE BLOCKS.

No. of resolution.	Date of approval.	
151.	April 5, 1895,	*Francis street, from Cove and Exchange place to Gaspee street:* — three-fourths completed.
151.	" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.

TO PAVE WITH TRINIDAD ASPHALT.

322.	July 13, 1897,	*Approaches to new passenger station:* — two-thirds completed.

The following work, ordered by the board of aldermen and city council, had not commenced June 30, 1898, namely:

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SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
Nov. 18, 1897,	*Whitmarsh street, from Updike to Elmwood avenue.*
Dec. 16, "	*Arlington avenue, east side, from Irving to University.*
" " "	*Ayrault street, from Valley to Chalkstone avenue.*
" " "	*Black street, from Orms to Chalkstone avenue.*
" " "	*Foster street, from Broad to Pine.*
" " "	*Lexington avenue, from Hamilton street to Broad.*
" " "	*Wayne street, from Nolan to Candace.*
" " "	*West Park street, from Holden to Senter.*
June 16, 1898,	*Arlington avenue, east side, from University avenue to Lloyd.*
" " "	*Columbian avenue, from Broad street to Roger Williams Park.*

TO PUT IN GOOD CONDITION.

Sept. 16, 1897,	*Irving avenue, from Grotto to its easterly termination.*

Bills approved on account of highways from April 1 to June 30, 1898, inclusive, amounted to:

Regular appropriation	$56,161 26	
Special appropriation	660 75	
Special credit appropriation	3,477 80	
		$60,299 81

Classified as follows:

Cleaning streets	$16,268 76
Repairs on unpaved streets	13,603 55
Repairs on paved streets	8,591 15
Crushed stone—material and labor	6,368 74
Amount carried forward	$44,832 20

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Amount brought forward	$44,832 20	
Blacksmith and wheelwright shop	2,537 91	
Barn expenses	1,899 98	
Steam rollers—repairs and supplies	1,068 86	
Tools, implements, etc	1,070 32	
Removing snow and ice	889 12	
Repairs on stone crushers	801 11	
Labor on material	620 04	
Horses, wagons, harnesses, etc	435 16	
Salary—superintendent	408 00	
Stone—paving and crosswalk	285 52	
Building driveways, etc	180 74	
Watchman at city yard	144 00	
Watering streets	115 34	
Sundries	75 87	
Office expenses—city yard	45 58	
Fencing streets—material and labor	8 00	
		$55,437 75

New Work—Building and Rebuilding Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Brownell street, from Park to Francis	$19 48	
Irving avenue, from Taber to Blackstone boulevard	457 97	
Miner street, from Potters avenue to Sayles street.	927 38	
Peace street, from Elmwood avenue to Bucklin street	658 15	
Power street, from Ives to Gano	1,010 86	
Roger street, from Power to Williams	332 22	
		3,406 06

Pave with Granite Blocks.

Francis street, from Cove and Exchange place to Gaspee street	162 00

Pave with Trinidad Asphalt.

The two approaches to the proposed depot in Exchange place	498 75

Pave with Granite Blocks and Cobble.

Eddy street, from Henderson to Public	71 74

To Repair.

Sprague street, from Elmwood avenue to Dexter street	723 51
	$60,299 81

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Bills deposited with the city treasurer for collection, from April 1 to June 30, 1898, inclusive, amounted to . . $2,511 65

As follows:

Blacksmith and harness work for other departments	$623 54
Boarding horses for other departments	494 93
Labor and material	415 50
Street sweepings	342 63
Union Railroad Company, for granite blocks, etc.	303 20
Providence Gas Company, for granite blocks, etc.	235 60
Manure from barn	72 00
Removing trees	20 00
Use of horse scraper	2 25
Discharging cargoes at city wharf	2 00
	$2,511 65

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of $1,992 33

As follows:

Labor and material	$753 75
Union Railroad Company, for granite blocks, etc.	303 20
Blacksmith and harness work for other departments	297 03
Boarding horses for other departments	273 10
Street sweepings	269 00
Manure from barn	72 00
Removing trees	20 00
Use of horse scraper	2 25
Use of engine discharging cargo at city wharf	2 00
	$1,992 33

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from April 1 to June 30, 1898, inclusive, amounted to $2,654 13

Charged as follows:

Granite curbing	$1,664 66
Concreting sidewalks	989 47
	$2,654 13

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Curbing bills deposited with the city treasurer for collection from April 1 to June 30, 1898, inclusive, amounted to $52 20

During the quarter, coupons from curbing bills collected have been returned by the city treasurer and receipted for, amounting to $4,783 31

CITY ENGINEER.

Bills approved on account of the city engineer's department from April 1 to June 30, 1898, inclusive, amounted to $10,557 16

Charged as follows:

Salary—city engineer	$1,125 00
Salaries of assistants	8,195 51
Salaries of clerks	705 00
Supplies—drawing material, etc.	278 95
Car fares	205 70
Instruments and repairs	24 65
Sundries	11 35
Meteorological instruments and repairs	11 00
	$10,557 16

Bills deposited with the city treasurer for collection from April 1 to June 30, 1898, inclusive, amounted to $1 90

As follows:

Steel tapes	$1 15
Blue process paper	75
	$1 90

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, amounting to $1 90

As follows:

Steel tapes	$1 15
Blue process paper	75
	$1 90

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BRIDGES.

The following work was in progress at the end of the quarter, namely:

No. of resolution.	Date of approval.	
158.	April 20, 1897,	*Weybosset bridge and river walls.*
187.	May 20, 1898,	*Weybosset bridge extension.*

Bills approved on account of bridges from April 1 to June 30, 1898, inclusive, amounted to $4,573 67

Charged as follows:

Acorn street bridge	$19 37
Atwells avenue bridge	2 30
Barn expenses	75 22
Building at city yard	21
Burnside bridge	34 92
Charles street bridge	22 85
Delaine street bridge	2 30
Eagle street bridge	2 98
Exchange bridge	35 20
Gaspee street bridge	23 77
Geneva bridge	96 78
Horses, wagons, harnesses, etc	18 98
Lumber, hardware, etc	25 59
Park street bridge	2 32
Point street bridge	975 02
Randall street bridge	6 45
Red bridge	178 92
Rent of keeper's house, Washington bridge	30 00
Salaries—Point street bridge	903 00
Salaries—Red bridge	462 00
Salaries—Washington bridge	444 00
Smith street bridge	21 29
Smithfield avenue bridge	3 98
Stevens street bridge	12 45
Sundries	77 95
Tools	105 12
Valley street bridge—north span	2 30
Veazie street bridge	14 50
Washington bridge	970 10
Whelden street bridge	3 80
	$4,573 67

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Bills deposited with the city treasurer for collection, for old lumber sold, from April 1 to June 30, 1898, inclusive, amounted to . . $1 00

During the quarter, coupons from bills collected have been returned by the city treasurer, and receipted for, to the amount of . $176 00

As follows :

Union Railroad Company, for miscellaneous work.	$175 00
Old lumber	1 00
	$176 00

Bills approved for account of rebuilding the Weybosset bridge and river walls, from April 1 to June 30, 1898, inclusive, have been paid from the special appropriation for that work, to the amount of $34,540 68

PUBLIC WORKS OFFICE.

Bills approved for account of the public works office, from April 1 to June 30, 1898, inclusive, amounted to $4,689 12

Charged as follows:

Salaries of commissioner and secretary	$1,925 00
Salaries of office assistants	2,654 84
Office supplies	109 28
	$4,689 12

ROBERT E. SMITH,

Commissioner.

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SIXTY-THIRD QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING SEPTEMBER 30, 1898.

The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1898.

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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., Oct. 1, 1898.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter IV. of the ordinances, the Commissioner of Public Works respectfully presents the sixty-third quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending Sept. 30, 1898:

WATER WORKS.

The average daily consumption of water during the last quarter was 9,789,898 gallons.

Water pipes were laid during the quarter as follows:

24-INCH.	
At Weybosset bridge	304.58 feet.
8-INCH.	
In Charles, Dyer and Pelham streets; and in Smith street, in town of North Providence	1,050.10 feet.
6-INCH.	
In Bend, Eutaw, Ladd, Pitman, Promenade, Seaman and South Water streets; Lenox, Rounds, Stamford and Union avenues; in Brook street; New Depot, Tucker and Washington avenues, in the town of Cranston	3,104.42 feet.
Total	4,459.10 feet.

or, .844 + mile.

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Water pipes were removed or abandoned during the quarter, as follows:

24-INCH.	
At Weybosset bridge	266.82 feet.
8-INCH.	
From Dyer street, at Weybosset bridge	18.08 feet.
6-INCH.	
From Pelham street	38.34 feet.
Total	323.24 feet.

or, .061 + mile.

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	61,328.30 feet.
24-inch	43,590.79 feet.
20-inch	9,626.59 feet.
16-inch	34,084.95 feet.
12-inch	92,817.16 feet.
10-inch	15,057.14 feet.
8-inch	260,321.94 feet.
6-inch	1,127,316.02 feet.
Total	1,654,226.89 feet.

or, 313.300 + miles.

Statement of sizes and lengths of pipe laid for the Special Water Service for Fire Protection, since the commencement of the work:

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total	29,408.71 feet.

or, 5.569 + miles.

Six fire hydrants have been set during the quarter, one in each of the following locations:

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Chestnut avenue, Cranston, north side, 309 feet west of gate at Pontiac avenue.
East Manning street, north side, 255 feet east of Gano street.
Oakland avenue, Cranston, northeast corner of Summer street.
Pitman street, north side, on east building line of Butler avenue.
Rhode Island avenue, north side, 257 feet east of Butler avenue.
Trenton street, south side, southwest corner of Gano street.

The total number of fire hydrants, exclusive of hydrants for special service for fire protection, is now eighteen hundred and one—seventeen hundred and twenty-five flush, and seventy-six post hydrants.

The total number of fire hydrants on the Special Water Service for Fire Protection is ninety.

During the quarter, two hundred and thirty-nine water meters were set, of which number thirty-nine were to replace other meters. The use of ten meters was discontinued.

The following meters were in use at the close of the quarter:

Kind.	Size.								Total.
	⅝-in.	¾-in.	1-in.	1½ in.	2-in.	3-in.	4-in.	6-in.	
Ball & Fitts, piston	3,174	624	152	23	7	.....	.....	.....	3,980
Ball & Fitts, rotary	.....	.....	12	15	1	3	2	.....	33
Crown	7,552	778	240	110	27	16	17	.....	8,740
Empire	87	15	9	9	3	.....	.....	.....	123
Fales, Jenks & Sons	.....	.....	1	.....	.....	.....	.....	.....	1
Gem	.....	.....	.....	.....	3	14	8	1	26
Thomson	2,761	381	76	54	22	7	7	3	3,311
Trident	28	.....	.....	.....	.....	.....	.....	.....	28
Worthington	1	1	.....	.....	1	.....	1	.....	4
	13,603	1,799	490	211	64	40	35	4	16,246

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Two plumbers' licenses were issued during the quarter, making the total number one hundred and seventeen, all of which expire December 31, 1898.

Eight hundred and seventy-seven permits to do plumbing work were issued during the quarter.

One hundred and thirty-six applications for water were made during the quarter, making the total number September 30, 1898, twenty-two thousand eight hundred and thirty-seven.

The number of new service stops opened during the quarter was one hundred and fifty-eight.

The total number of service stops opened to September 30 1898, inclusive, was twenty-two thousand one hundred and sixty-three. The number in actual use September 30, 1898, was twenty thousand four hundred and eighty-six.

The amount of bills approved on account of water works from July 1 to September 30, 1898, inclusive, was :

For construction and extension, . . . $5,289 90

Classified as follows :

Laying water pipes	$2,098 46
Laying service pipes	901 86
Special castings	727 02
Repairs on pipe yard buildings	449 17
Fire hydrants, boxes, and covers	252 00
Barn expenses	235 32
Wharf salaries	227 14
Horses, wagons, harnesses, etc	176 20
Labor on and carting pipe	78 80
Patterns for special castings	65 00
Tools	57 89
Sundries	21 04
	$5,289 90

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For maintenance, ... $19,126 83

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood	$2,067 04	
Sundries	628 34	
Engineers	559 96	
Firemen	442 50	
Superintendence	318 71	
Cornish pumping engine	150 40	
Care of grounds	92 55	
Oil, waste, and packing	72 94	
Barn expenses	49 49	
Labor on fuel	40 05	
Real estate	14 42	
Worthington high-duty pumping engine	6 36	
Lights	3 63	
Cornish engine house	43	
		$4,446 82

SOCKANOSSET RESERVOIR.

Watchman	$194 00	
Sundries	35 95	
		229 95

HOPE PUMPING STATION.

Firemen	$446 20	
Engineers	318 71	
Care of grounds	145 25	
Lights	57 33	
Sundries	31 98	
Repairs on boilers	5 18	
		1,004 65

HOPE RESERVOIR.

Sundries	$232 15	
Watchman	218 25	
		450 40

FRUIT HILL RESERVOIR.

Sundries	$458 03	
Watchman	218 25	
		676 28
Amount carried forward		$6,808 10

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Amount brought forward		$6,808 10

PIPE LINE AND SERVICE STOPS.

Repairs	$3,653 50	
Superintendence — salaries	910 35	
		4,563 85

METER DEPARTMENT.

Water meters	$2,902 68	
Setting and repairing meters	1,420 79	
		4,323 47

MISCELLANEOUS.

Clerks' and inspectors' salaries	$1,574 86	
Telephone lines	550 71	
Prevention of defilement of the Pawtuxet	549 99	
Barn expenses	270 83	
Horses, wagons, harnesses, etc	226 88	
Analyses of water	105 00	
Public drinking fountains and troughs	75 46	
Sundries	43 17	
Town of Lincoln, tax	27 50	
Pipe yard, office expenses	7 01	
		3,431 41
		$19,126 83

The amount of expenditures from July 1 to September 30, 1898, inclusive, was . $24,416 73

The total expenditures to September 30, 1898, inclusive, were $8,730,891 99

The *net* expenditure for construction and extension from July 1 to September 30, 1898, inclusive, was	$4,288 90
The *net* expenditure for construction and extension to September 30, 1898, inclusive, was	$6,412,707 19
The *net* expenditure for maintenance from July 1 to September 30, 1898, inclusive, was	$13,035 48
The *net* expenditure for maintenance to September 30, 1898, inclusive, was	$1,457,675 22

The value of the water works system January 1, 1898, as estimated by the city engineer, was as follows :

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Pettaconset pumping station	$340,694 00	
Hope pumping station	143,784 15	
Sockanosset, Hope, and Fruit Hill reservoirs	751,629 00	
Main lines and distribution pipes	2,764,100 98	
Real estate in Pawtuxet and Lincoln	15,975 00	
Tools and supplies	31,866 70	
		$4,048,049 83

Bills deposited with the city treasurer for collection from July 1 to September 30, 1898, inclusive, amounted to . . $59,304 76

As follows:

Water	$51,899 31
Water meters	4,150 50
Setting and repairing meters	1,804 40
Rent of real estate	150 50
Penalties	58 00
Permanently closing service stops	55 00
Repairs on pipe line	7 85
Labor and material, laying service pipes, etc	1,179 20
	$59,304 76

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $88,989 44

As follows:

Water	$81,839 09
Water meters	4,214 75
Setting and repairing meters	1,648 10
Rent of real estate	150 50
Penalties	58 00
Permanently closing service stops	55 00
Repairs on pipe line	23 00
Labor and material, laying service pipes, etc	997 72
Old iron	3 28
	$88,989 44

The amount of bills approved on account of water works for the fiscal year ending September 30, 1898, inclusive, was:

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For construction and extension, . . $56,992 87

Classified as follows:

Cast iron water pipe	$19,114 87
Laying water pipes	12,745 55
Stop valves	3,693 85
Laying service pipes	3,319 35
Special water service for fire protection	3,145 44
Fire hydrants, boxes and covers	3,121 28
Special castings	3,043 99
Service pipe	1,587 81
Tools	1,333 58
Patterns for special castings	1,198 38
Labor on and carting pipe	1,165 60
Barn expenses	923 24
Taps and stops	894 46
Wharf salaries	801 43
Repairs on pipe yard buildings	491 59
Horses, wagons, harnesses, etc	276 81
Holly high-duty compound engine at Hope station, to erect	100 00
Sundries	35 64
	$56,992 87

For Maintenance, ... $84,123 76

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood	$7,223 57	
Sundries	4,220 93	
Engineers	2,107 08	
Firemen	1,685 30	
Superintendence	1,199 28	
Care of grounds	460 98	
Oil, waste, and packing	266 47	
Barn expenses	197 67	
Labor on fuel	180 25	
Cornish pumping engine	150 40	
Worthington high-duty pumping engine	60 96	
Lights	30 82	
Cornish engine house	21 98	
Real estate	21 42	
Corliss pumping engine and house	2 50	
		$17,829 61

SOCKANOSSET RESERVOIR.

Watchman	$730 00	
Sundries	373 71	
		1,103 71
Amount carried forward		$18,933 32

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Amount brought forward		$18,933 32
Hope Pumping Station.		
Coal and wood	$2,612 50	
Firemen	1,679 00	
Engineers	1,199 28	
Care of grounds	328 00	
Lights	274 47	
Repairs on boilers	248 07	
Sundries	218 89	
Holly pumping engine	73 82	
Oil, waste, and packing	43 33	
		6,677 36
Hope Reservoir.		
Watchman	$821 25	
Sundries	657 83	
		1,479 08
Fruit Hill Reservoir.		
Sundries	$1,547 17	
Watchman	821 25	
		2,368 42
Pipe Line and Service Stops.		
Repairs	$13,038 68	
Superintendence — salaries	3,386 91	
		16,425 59
Meter Department.		
Water meters	$14,567 78	
Setting and repairing meters	6,080 73	
		20,648 51
Miscellaneous.		
Town of Cranston, tax	$6,178 43	
Clerks' and inspectors' salaries	5,723 81	
Prevention of defilement of the Pawtuxet	1,866 64	
Barn expenses	1,097 49	
Horses, wagons, harnesses, etc	732 35	
Telephone lines	551 96	
Town of North Providence, tax	400 00	
Analyses of water	375 00	
Sundries	247 21	
Pipe yard, office expenses	164 18	
Public drinking fountains and troughs	116 91	
Real estate at Pawtuxet	82 50	
Town of Lincoln, tax	55 00	
		17,591 48
		$84,123 76

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SEWERS.

During the quarter ending September 30, 1898, four hundred and forty-two permits were issued to drain layers — two hundred and fifty-eight for new work, and one hundred and eighty-four for extension and repairs of drains.

One drain layer's license was issued during the quarter, making the total number fifty, all of which expire December 31, 1898.

July 11th, a contract for the construction of the following sewer was awarded, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials, or rock excavation.]

To William H. Sherman.

No. of resolution.	Date of approval.		
274.	July 8, 1898,	*Slocum street, from near Almy to Harkness,*	$338 03

July 12th, a contract for the construction of the following sewer was awarded and subsequently executed, namely:

To Frederick E. Shaw.

No. of resolution.	Date of approval.		
190.	May 20, 1898,	*Mill street, east side, from North Main to Bark,*	$354 60

August 5th, a contract for the construction of the following storm sewer was awarded and subsequently executed, namely:

To Frederick E. Shaw.

No. of resolution.	Date of approval.		
308.	Aug. 5, 1898,	*Benefit, Star, North Main and Canal streets,*	$561 50

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Sept. 2nd, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

TO JAMES J. NEWMAN.

No. of resolution.	Date of approval.		
261.	July 8, 1898,	*Plainfield street and Olneyville square,*	$6,024 39

TO FREDERICK E. SHAW.

211.	June 10, 1898,	*Parnell street, from its northerly termination to Atwells avenue,*	$1,855 30
260.	July, 8, "	*Manton avenue, from Erastus street to King, and from Sisson to Unit,*	2,251 70
309.	Aug. 5, "	*Back and Lock streets,*	1,129 20

Sept. 29th, a contract for the construction of the following sewer was awarded and subsequently executed, namely:

TO WILLIAM H. SHERMAN.

No. of resolution.	Date of approval.		
354.	Sept. 23, 1898,	*Lester street, from Gilmore to Bridgham,*	$342 10

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution.	Date of approval.		Date of completion.
394.	Oct. 5, 1897,	*Broad and Rugby streets,*	Aug. 18, 1898.
416.	" 26, "	*Columbian avenue and Roger Williams Park,*	Sept. 15, 1898.
152.	May 3, 1898,	*Baker street, from Eddy to Broad,*	July 6, 1898.

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No. of resolution.	Date of approval.				Date of completion.
155.	May	3,	1898,	*Trenton street, from Ives to Gano,*	July 20, 1898.
156.	"	"	"	*Washburn and Common streets,*	Aug. 6, 1898.
274.	July	8,	"	*Slocum street, from near Almy to Harkness,*	July 26 1898.
308.	Aug.	5,	"	*Benefit, Star, North Main and Canal streets.*	Sept. 10, 1898.

At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

No. of resolution.	Date of approval.			
406.	July	15,	1889,	*Section 2, Sewage Precipitation Tanks, Improved Sewerage System.*
572.	Dec.	20,	1895,	*Section 21, Moshassuck Division, Improved Sewerage System.*
572.	"	"	"	*Section 22, Moshassuck Division, Improved Sewerage System.*
202.	May	20,	1898,	*Section 23, Woonasquatucket Division, Improved Sewerage System.*

Work upon the following lateral sewers was in progress at the close of the quarter, namely:

No. of resolution.	Date of approval.			
211.	June	10,	1898,	*Parnell street, from its northerly termination to Atwells avenue.*
261.	July	8,	"	*Plainfield street and Olneyville square.*
309.	Aug.	5,	"	*Back and Lock streets.*

Work upon the following sewers, completing the work ordered by the city council, had not commenced September 30, 1898, namely:

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No. of resolution.	Date of approval.	
190.	May 20, 1898,	*Mill street, east side, from North Main to Bark.*
260.	July 8, "	*Manton avenue, from Erastus to King, and from Sisson to Unit.*
354.	Sept. 23, "	*Lester street, from Gilmore to Bridgham.*
357.	" 26, "	*Brayton avenue and across land of the N. Y., N. H. and H. R. R. Co.*
358.	" " "	*West Exchange and Gaspee streets.*

The amount of bills approved on account of sewers from July 1 to September 30, 1898, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation	$19,005 72	
Improved sewage appropriation	64,622 94	
		$83,628 66

Charged as follows:

Material	$10,232 48
Salaries of assistant engineers	600 00
Additional catch-basins	309 46
Testing cement	296 88
Sundries	201 30
Sundries, improved sewerage system	12 95
Tools	1 50
Sewer in Back and Lock streets	1,407 31
Sewer in Bacon, North Main, Randall, and Printery streets	207 75
Sewer in Baker street, from Eddy to Broad	803 21
Sewer in Broad street, east side, from Berkely to end of sewer in Potters avenue	202 24
Sewer in Broad and Rugby streets	3,159 26
Sewer in Chaffee street, from Appleton to Manton avenue	259 00
Sewer in Columbian avenue and Roger Williams Park	3,413 66
Sewer in Parnell street, from its northerly termination to Atwells avenue	104 19
Sewer in Plainfield street and Olneyville square	12 25
Sewer in Public street, from Eddy to Allens avenue	558 65
Amount carried forward	$21,781 09

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Amount brought forward	$21,781 99	
Sewer in Sayles street, from Ocean to Plain	109 45	
Sewer in Slocum street, from Almy to Harkness	383 33	
Sewer in Trenton street, from Ives to Gano	1,036 81	
Sewer in Washburn and Common streets	964 09	
Surface sewer in Wickenden and Gano streets	605 43	
Culvert across Allens avenue at Old Maids cove	2,186 90	
Sewer in Moshassuck Division, Section 20	7 58	
Sewer in Moshassuck Division, Section 21	23,175 34	
Sewer in Moshassuck Division, Section 22	40 00	
Sewer in Woonasquatucket Division, Section 23	12,336 68	
Sewage precipitation tanks — to build	21,000 96	
		$83,628 66

For maintenance, ... $27,962 94

Charged as follows:

Cleaning basins and sewers	$15,573 82
Repairing basins and sewers	3,038 03
Cleaning and repairing old drains	1,225 26
Tools	1,108 49
Storm sewer in Benefit and Star streets	1,009 25
Inspection of connections	728 36
Salary—superintendent	471 14
Barn expenses	360 58
Sundries	341 89
Horses, wagons, harnesses, etc	308 05
Filling cisterns, etc	89 09
Telephone lines	70 71
Office expenses	40 66
Cleaning private connections	40 00
Repairs on gate houses	21 95
Repairs on buildings at sewer maintenance yard	13 45

ERNEST STREET STATION.

Engineers	$813 24
Coal and wood	659 92
Cleaning screens	564 07
Firemen	438 00
Supplies	326 96
Cleaning and repairing pumps	242 28
Care of grounds	196 06
Care of buildings	139 57
Repairs on buildings	65 33
Lights	38 01
Repairs on engines	31 57
Repairs on boilers	7 20
	$27,962 94

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The *net* expenditure for construction of sewers to September 30, 1898, inclusive, was	$6,208,137 77
The *net* expenditure for maintenance of sewers to September 30, 1898, inclusive, was	$599,389 19

Bills deposited with the city treasurer for collection from July 1 to September 30, 1898, inclusive, amounted to . . . $722 90

As follows:

Extinguishing fire at Bowdoin street dump	$168 48
Filling cisterns, etc	78 45
Cleaning private connections	31 25
Old manhole frames and covers	7 44
Building retaining wall—Section 20	232 86
Sewer material	172 32
Laying drains to curbstones	32 10
	$722 90

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $832 19

As follows:

Extinguishing fire at Bowdoin street dump	$168 48
Rebuilding sewer in Fulton street	109 29
Filling cisterns, etc	78 45
Cleaning private connections	31 25
Old manhole frames and covers	7 44
Building retaining wall—Section 20	232 86
Sewer material	172 32
Laying drains to curbstones	32 10
	$832 19

The amount of bills approved on account of sewers for the fiscal year ending September 30, 1898, inclusive, was:

FOR CONSTRUCTION.

Regular appropriation	$58,909 24	
Improved sewerage appropriation	134,770 52	
		$193,679 76

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Charged as follows:

Material	$27,471 86
Salaries of assistant engineers	10,214 77
Contract reservations	3,425 00
Sundries	1,318 31
Testing cement	848 49
Additional catch-basins	695 60
Sundries, improved sewerage system	678 54
Experiments in filtration at Ernest street station	230 83
Patterns for sewer castings	225 00
Tools	32 96
Sewer in Atwells avenue, from Woonasquatucket river to Valley street	693 44
Sewer in Babbitt street, from Black to Quaid	603 91
Sewer in Bacon, North Main, Randall, and Printery streets	6,496 39
Sewer in Back and Lock streets	1,407 31
Sewer in Baker street, from Eddy to Broad	1,537 80
Sewer in Blackstone boulevard, east side, from President avenue westerly about 150 feet	209 30
Sewer in Broad street, east side, from Buckley to end of sewer in Potters avenue	619 06
Sewer in Broad and Rugby streets	3,159 26
Sewer in Chaffee street, from Appleton to Manton avenue	1,148 58
Sewer in Chalkstone avenue, from near Claremont street to Winthrop	1,110 99
Sewer in Chalkstone avenue, from North Davis street to Douglas avenue	1,356 33
Sewer in Columbian avenue and Roger Williams Park	3,413 66
Sewer in Doyle avenue, from near East to Elmgrove	153 50
Sewer in Garden street, from Jackson about 140 feet westerly	359 92
Sewer in Halsey street, from near Prospect to Brown	793 16
Sewer in Parnell street, from its westerly termination to Atwells avenue	104 19
Sewer in Peace street, from summit west of Broad to Elmwood avenue	1,074 99
Sewer in Plainfield street and Olneyville square	12 25
Sewer in Prospect street, from Barnes to Halsey	362 85
Sewer in Public street, from Eddy to Allens avenue	2,600 17
Sewer in Sayles street, from Ocean to Plain	799 87
Sewer in Slocum street, from Almy to Harkness	383 33
Sewer in Smith street, from Elmhurst to McCaughin	1,230 14
Amount carried forward	$74,771 76

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Amount brought forward	$74,771 76
Sewer in South Angell street and Butler avenue	1,407 34
Sewer in Trenton street, from Ives to Gano	1,036 81
Sewer in Washburn and Common streets	964 09
Sewer in Waterman street, from near Wayland avenue to Butler	1,176 52
Sewer in Wayne, Danforth, and Mathew streets	1,485 61
Surface sewer in Wickenden and Gano streets	605 43
Building roadway from Ernest street station to precipitation tanks	775 79
Carriage shed at Ernest street station — to build	242 97
Connecting lateral sewers with improved sewerage system	1,312 04
Culvert across Allens avenue at Old Maids cove	2,186 90
Grading grounds at Ernest street station	2,610 79
Granite steps for Ernest street station	1,265 00
Sewer in Disposal Division, Section 4	132 01
Sewer in Manton avenue and King street	2,988 56
Sewer in Moshassuck Division, Section 20	22,696 53
Sewer in Moshassuck Division, Section 21	28,964 99
Sewer in Moshassuck Division, Section 22	40 00
Sewer in Woonasquatucket Division, Section 23	17,759 29
Sewage precipitation tanks — to build	31,222 38
Supplies for sewage pumping station	34 95
	$193,679 76

For maintenance, ... $66,136 41

Charged as follows:

Cleaning basins and sewers	$26,587 46
Repairing basins and sewers	12,508 58
Cleaning and repairing old drains	2,927 97
Inspection of connections	2,498 58
Tools	2,297 73
Salary — superintendent	1,707 71
Barn expenses	1,468 17
Storm sewer in Benefit and Star streets	1,009 25
Sundries	947 97
Horses, wagons, harnesses, etc	783 18
Filling cisterns, etc	178 49
Office expenses	158 19
Cleaning private connections	137 70
Telephone lines	70 71
Repairs on buildings at sewer maintenance yard	62 65
Repairs on gate houses	23 33
Amount carried forward	$53,367 67

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Amount brought forward	$53,367 67

ERNEST STREET STATION.

Engineers	$2,924 13
Cleaning screens	2,131 05
Coal and wood	1,921 82
Firemen	1,698 80
Supplies	1,641 20
Cleaning and repairing pumps	1,020 70
Repairs on engines	342 80
Care of grounds	335 27
Lights	255 34
Care of buildings	207 18
Repairs on buildings	160 41
Repairs on boilers	130 04
	$66,136 41

HIGHWAYS.

Two permits to open streets were issued during the quarter.

August 4th, curbing bills were certified to the assessors of taxes amounting to $7,948.92.

September 9th, the proposal of Joseph Newall & Co. to furnish and deliver one hundred thousand granite paving blocks, was accepted.

September 14th, the proposal of James B. Hogan for tearing down the old passenger station building on Exchange place, the contractor to retain all material taken from the building and to pay the city the sum of $500.55, was accepted. A contract was subsequently executed.

During the quarter, the following work was completed :

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
May 16, 1895,	*Francis street, from Cove and Exchange place to Gaspee street.*
" 20, 1897,	*Francis street, from West Exchange to bridge over the Woonasquatucket river.*

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Date of order.	
July 1, 1897,	*Approaches to new passenger station.*
Sept. 16, "	*Peace street, from Elmwood avenue to Bucklin street.*

The following work was in progress September 30, 1898, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
May 16, 1895,	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.

TO BE PAVED WITH GRANITE BLOCKS.

No. of resolution.	Date of approval.	
151.	April 5, 1895,	*Francis street, from Cove and Exchange place to Gaspee street:* — three-fourths completed.
151.	" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street:* — one-half completed.

TO PAVE WITH TRINIDAD ASPHALT.

No. of resolution.	Date of approval.	
322.	July 13, 1897,	*Approaches to new passenger station:* — two-thirds completed.

TO BUILD.

257.	July 8, 1898,	*Exchange place and West Exchange street:* — curbing partially set.

TO REMOVE BUILDING AND GRADE.

320.	Sept. 13, 1898,	*Old passenger station, Exchange place and adjoining lands:* — in process.

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The following work, ordered by the board of aldermen and city council, had not commenced September 30, 1898, namely:

Sidewalks to be Curbed and Gutters Paved.

Date of order.	
Nov. 18, 1897,	*Whitmarsh street, from Updike to Elmwood avenue.*
Dec. 16, "	*Arlington avenue, east side, from Irving to University.*
" " "	*Ayrault street, from Valley to Chalkstone avenue.*
" " "	*Black street, from Orms to Chalkstone avenue.*
" " "	*Foster street, from Broad to Pine.*
" " "	*Lexington avenue, from Hamilton street to Broad.*
" " "	*Wayne street, from Nolan to Candace.*
" " "	*West Park street, from Holden to Senter.*
June 16, 1898,	*Arlington avenue, east side, from University to Lloyd.*
" " "	*Columbian avenue, from Broad street to Roger Williams Park.*
Sept. 15, 1898,	*Canal street extension and Mill street.*
" " "	*Power street, from Governor to Ives.*
" " "	*Irving street, from Emerson to Broad.*

To Put in Good Condition.

Sept. 16, 1897,	*Irving avenue, from Grotto to its easterly termination.*

To Build and Curb.

No. of resolution.	Date of approval.	
350.	Sept. 23, 1898,	*Whitmarsh street, from Updike to Elmwood avenue.*
350.	" " "	*Arlington avenue, east side, from Irving to University.*

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No. of resolution.	Date of approval.	
350.	Sept. 23, 1898,	*Ayrault street, from Valley to Chalkstone avenue.*
350.	" " "	*Black street, from Orms to Chalkstone avenue.*
350.	" " "	*Lexington avenue, from Hamilton street to Broad.*
350.	" " "	*Wayne street, from Nolan to Candace.*
350.	" " "	*West Park street, from Holden to Senter.*
350.	" " "	*Arlington avenue, east side, from University to Lloyd.*
350.	" " "	*Columbian avenue, from Broad street to Roger Williams Park.*

To Pave with Granite Blocks.

351.	Sept. 23, 1898,	*Canal street extension and Mill street.*

To Pave with Asphalt.

352.	Sept. 23, 1898,	*Mathewson street, from Westminster to Weybosset.*
353.	" " "	*Washington street extension, from West Exchange to near Exchange bridge.*

Bills approved on account of highways from July 1 to September 30, 1898, inclusive, amounted to:

Regular appropriation	$42,446 68	
Special appropriation	2,462 13	
Special credit appropriation	881 48	
		$45,790 29

Classified as follows:

Cleaning streets	$18,753 51
Crushed stone—material and labor	7,232 58
Repairs on unpaved streets	5,921 64
Amount carried forward	$31,907 73

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Amount brought forward	$31,907 73	
Barn expenses	2,274 26	
Blacksmith and wheelwright shop	2,196 58	
Repairs on paved streets	1,534 67	
Repairs on stone crushers	1,237 14	
Tools, implements, etc	766 39	
Steam rollers—repairs and supplies	514 79	
Salaries—superintendent and clerks	471 14	
Labor on material	345 93	
Building driveways, etc	300 93	
Horses, wagons, harnesses, etc	175 03	
Watering streets	165 54	
Watchman at city yard	142 29	
Stone—paving and crosswalk	138 90	
Fencing streets—material and labor	114 29	
Sundries	104 91	
Office expenses—city yard	34 73	
Telephone lines	21 43	
		$42,446 68

New Work—Building and Rebuilding Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Peace street, from Elmwood avenue to Bucklin street		881 48

Pave with Granite Blocks.

Francis street, from Cove and Exchange place to Gaspee street	1,211 98	
Promenade street, from present end of pavement near railroad bridge to Steeple street	89 00	
		1,300 98

Pave with Trinidad Asphalt.

The two approaches to the proposed depot in Exchange place		1,161 15
		$45,790 29

Bills deposited with the city treasurer for collection, from July 1 to September 30, 1898, inclusive, amounted to . . $7,358 57

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As follows:

Union Railroad Company, for granite blocks, etc...	$5,961 47	
Labor and material	642 47	
Blacksmith and harness work for other departments	331 27	
Old iron	176 86	
Street sweepings	154 00	
Manure from barn	72 00	
Use of hoisting engine	7 50	
Use of plow	7 00	
Removing trees	6 00	
	$7,358 57	

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of $7,559 94

As follows:

Union Railroad Company, for granite blocks, etc...	$6,073 04	
Labor and materials	449 07	
Blacksmith and harness work for other departments	326 51	
Street sweepings	227 63	
Boarding horses for other departments	221 83	
Old iron	176 86	
Manure from barn	72 00	
Use of plow	7 00	
Removing trees	6 00	
	$7,559 94	

Bills approved on account of highways for the fiscal year ending September 30, 1898, inclusive, amounted to:

Regular appropriation	$215,859 21	
Special appropriation	3,503 72	
Special credit appropriation	12,193 45	
		$231,556 38

Classified as follows:

Cleaning streets	$56,160 94
Crushed stone — material and labor	47,741 62
Amount carried forward	$103,902 56

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Amount brought forward	$103,902 56	
Repairs on unpaved streets	36,325 40	
Removing snow and ice	13,778 58	
Repairs on paved streets	12,857 34	
Blacksmith and wheelwright shop	9,648 33	
Barn expenses	8,871 06	
Steam rollers — repairs and supplies	4,856 52	
Tools, implements, etc	4,441 50	
Repairs on stone crushers	3,175 84	
Labor on material	2,990 92	
Stone — paving and crosswalk	2,670 82	
Salaries — superintendent and clerks	1,772 85	
Horses, wagons, harnesses, etc	1,461 96	
Building driveways, etc.	930 01	
Watchman at city yard	601 72	
Sundries	407 83	
Watering streets	325 38	
Office expenses, city yard	185 73	
Fencing streets — material and labor	178 83	
Telephone lines	21 43	
		$209,404 61

New Work — Building and Rebuilding Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Andem street, from Academy avenue to Canton street	$10 00	
Brownell street, from Park to Francis	57 45	
Eddy street, west side, from Broad to Morton, and on east side from Broad to New York avenue	1 14	
Irving avenue, from Taber to Blackstone boulevard	6,878 30	
Lisbon street, from Chalkstone avenue to Regent	59 71	
Milk street, from Chester avenue to Public street	24 54	
Miner street, from Potters avenue to Sayles street	1,974 93	
Osborn street, from Vale to Chalkstone avenue	67 48	
Peace street, from Elmwood avenue to Bucklin street	1,539 63	
Power street, from Ives to Gano	1,943 80	
Roger street, from Power to Williams	820 34	
		13,377 32

Pave with Granite Blocks.

Francis street, from Cove and Exchange place to Gaspee street	$1,373 98	
Promenade street, from present end of pavement near railroad bridge to Steeple street	89 00	
		1,462 98
Amount carried forward		$224,244 91

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Amount brought forward		$224,244 91
PAVE WITH TRINIDAD ASPHALT.		
The two approaches to the proposed depot in Exchange place		1,903 55
PAVE WITH GRANITE BLOCKS AND COBBLE.		
Eddy street, from Henderson to Public		84 64
GRADE AND PUT IN GOOD CONDITION.		
Allens avenue, from Public street to Henderson	$398 86	
Montgomery avenue, from Virginia to Maryland, and *Alabama avenue*, from Maryland to Montgomery	2,988 53	
		3,387 39
TO PUT IN GOOD CONDITION.		
Irving avenue, from Grotto to its easterly termination		330 85
TO TAKE POSSESSION.		
Canal street, from Smith to Mill		881 53
TO REPAIR.		
Sprague street, from Elmwood avenue to Dexter street		723 51
		$231,556 38

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from July 1 to September 30, 1898, inclusive, amounted to $10,932 74

Charged as follows:

Repairing sidewalks and gutters	$5,053 87
Concreting sidewalks	4,562 82
Granite curbing	1,316 05
	$10,932 74

Bills deposited with the city treasurer for collection from July 1 to September 30, 1898, inclusive, amounted to $658 32

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As follows:

Curbing bills	$644 07
Discharging cargoes of curbing at city wharf	14 25
	$658 32

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for, to the amount of $1,361 35

As follows:

Curbing bills	$1,347 10
Discharging cargoes of curbing at city wharf	14 25
	$1,361 35

The expenditures on account of sidewalks and curbing for the fiscal year ending September 30, 1898, inclusive, amounted to . . . $17,795 89

Charged as follows:

Concreting sidewalks	$9,294 31
Repairing sidewalks and gutters	5,053 87
Granite curbing	3,447 71
	$17,795 89

CITY ENGINEER.

Bills approved on account of the city engineer's department from July 1 to September 30, 1898, inclusive, amounted to $15,390 68

Charged as follows:

Salary—city engineer	$1,125 00
Salaries of assistants	12,356 26
Salaries of clerks	814 10
Instruments and repairs	493 96
Supplies—drawing material, etc	373 38
Car fares	204 93
Telephone lines	10 71
Sundries	10 56
Carriage hire	1 78
	$15,390 68

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Bills deposited with the city treasurer for collection from July 1 to September 30, 1898, inclusive, for set of sewer diagrams, amounted to . $4 50

During the quarter, coupons from bills collected, for set of sewer diagrams sold, have been returned by the city treasurer and receipted for to the amount of $4 50

Bills approved on account of the city engineer's department for the fiscal year ending September 30, 1898, inclusive, amounted to . . . $47,998 78

Charged as follows:

Salary—city engineer	$4,500 00
Salaries of assistants	37,651 19
Salaries of clerks	3,063 38
Supplies—drawing material, etc	1,172 74
Car fares	933 83
Instruments and repairs	595 61
Sundries	56 04
Meteorological instruments and repairs	13 50
Telephone lines	10 71
Carriage hire	1 78
	$47,998 78

BRIDGES.

July 12th, the proposal of E. A. Card, of Groton, Conn., to furnish and deliver chestnut or oak piles for rebuilding crib-work at the Point street bridge, was accepted and a contract subsequently executed.

July 12th, the proposal of William M. Harris to furnish and deliver about 118,000 feet, B. M., yellow pine lumber for the crib-work at the Point street bridge, was accepted.

July 27th, the proposal of John T. Tank to extend the contract for building the Weybosset bridge piers and abutments so as to include the extension of the easterly pier northerly to meet the Burnside bridge pier, was accepted.

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August 16th, the proposal of John A. Dailey to furnish tools and labor for building the crib-work, fender piling, and dolphins, for the Point street bridge, was accepted and a contract subsequently executed.

The following work was in progress at the end of the quarter, namely:

No. of resolution.	Date of approval.	
158.	April 20, 1897,	*Weybosset bridge and river walls.*
187.	May 20, 1898,	*Weybosset bridge extension.*

Bills approved on account of bridges from July 1 to September 30, 1898, inclusive, amounted to $7,397 78

Charged as follows:

Barn expenses	$90 23
Building at city yard	42
Burnside bridge	6 67
Charles street bridge	1 58
Eagle street bridge	2 10
Francis street bridge	10 50
Horses, wagons, harnesses, etc	55 70
Lumber, hardware, etc	20 38
Park street bridge	1 40
Point street bridge	3,423,63
Red bridge	373 52
Rent of keeper's house, Washington bridge	30 00
Salaries—Point street bridge	1,084 75
Salaries—Red bridge	550 00
Salaries—Washington bridge	512 72
Sundries	61 91
Tar bridge—Manton avenue	230 85
Telephone lines	10 72
Tools	31 70
Veazie street bridge	1 10
Washington bridge	645 59
Washington row bridge—to repair	38 69
Washington row bridge—to rebuild	213 62
	$7,397 78

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Bills deposited with the city treasurer for collection from July 1 to September 30, 1898, inclusive, amounted to $16 16

As follows:

Cement barrels	$14 16
Old lumber	2 00
	$16 16

During the quarter, coupons from bills collected, for old lumber sold, have been returned by the city treasurer and receipted for to the amount of $2 00

Bills approved on account of bridges for the fiscal year ending September 30, 1898, inclusive, amounted to $19,641 05

Charged as follows:

Acorn street bridge	$51 44
Atwells avenue bridge	3 87
Barn expenses	366 87
Branch avenue bridge	14 80
Building at city yard	17 44
Burnside bridge	43 74
Charles street bridge	24 43
Delaine street bridge	2 30
Eagle street bridge	9 14
Exchange bridge	131 74
Francis street bridge	10 50
Gaspee street bridge	71 17
Geneva bridge	102 28
Horses, wagons, harnesses, etc	109 74
Lumber, hardware, etc	87 24
Mill street bridge	11 35
Park street bridge	5 27
Point street bridge	5,871 54
Randall street bridge	25 70
Red bridge	812 93
Rent of keeper's house, Washington bridge	120 00
Salaries—Point street bridge	3,965 75
Amount carried forward	$11,859 24

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Amount brought forward	$11,859 24
Salaries—Red bridge	2,037 50
Salaries—Washington bridge	1,945 37
Smith street bridge	21 29
Smithfield avenue bridge	3 98
Stevens street bridge	12 45
Sundries	615 95
Tar bridge—Manton avenue	230 85
Telephone lines	10 72
Tools	440 39
Valley street bridge—north span	2 30
Veazie street bridge	118 72
Wanskuck bridge	21 67
Washington bridge	2,030 84
Washington row bridge—to rebuild	213 62
Washington row bridge—to repair	38 69
Whelden street bridge	26 22
Weybosset bridge	11 25
	$19,641 05

Bills approved for account of rebuilding the Weybosset bridge and river walls, have been paid from the special appropriation for that work, as follows:

From October 1, 1897, to June 30, 1898	$93,566 42	
From July 1, 1898, to September 30, 1898	47,906 00	
		$141,472 42

PUBLIC WORKS OFFICE.

Bills approved on account of the public works office, from July 1 to September 30, 1898, inclusive, amounted to $5,241 20

Charged as follows:

Salaries of commissioner and secretary	$1,925 00
Salaries of office assistants	3,076 53
Office supplies	227 32
Telephone lines	10 72
Carriage hire	1 63
	$5,241 20

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Bills approved on account of the public works office for the fiscal year ending September 30, 1898, inclusive, amounted to $20,161 08

Charged as follows:

Salaries of commissioner and secretary	$7,700 00
Salaries of office assistants	11,746 07
Office supplies	702 66
Telephone lines	10 72
Carriage hire	1 63
	$20,161 08

CONTINGENCIES.

Bills approved for account of contingencies for the fiscal year ending September 30, 1898, inclusive, amounted to $854 20

Charged as follows:

Grading and fencing new city yard	$840 87
Removing old passenger station and grading adjoining lands	13 33
	$854 20

ROBERT E. SMITH,

Commissioner.

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